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CLASSIFIED GUIDE

TO

TECHNICAL AND COMMERCIAL BOOKS

A SUBJECT-LIST OF THE PRINCIPAL BRITISH AND AMERICAN WORKS IN PRINT

COMPILED BY

EDGAR GREENWOOD

LONDON

SCOTT, GREENWOOD & CO.

19 LUDGATE HILL, E.C.

NEW YORK

D. VAN NOSTRAND CO.

23 MURRAY STREET

1904

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PREFACE.

THE object of this Guide is to group into sections and subdivisions the principal books in the English language treating of technical and commercial subjects. The growth of technical education has created a demand for books covering a wide range of technology; hitherto the inquirer has had to search through various catalogues for a book on any given subject. This Guide enables him to see at a glance all the books of any standing dealing with nearly every profession and industry.

As far as possible, only books in print are given, but a few books may have gone out of print while this volume has been passing through the press. The bibliographical details refer to the latest edition of each book, and where American books are on sale in this country, the name of the British firm holding stock is given and the letters "U.S.A." designate it as an American book. Owing to the large range of subjects dealt with, it has been impossible to enter a book under more than one heading, but the index will frequently form the quickest means of tracing books on any particular subject. The sizes of the volumes in inches are approximately as follows:—

Folio 14 × 10 inches.	Demy 8vo $8\frac{3}{4} \times 5\frac{1}{2}$ inches.
Quarto 12 × 9 inches.	Crown 8vo $7\frac{1}{2} \times 5$ inches.
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The year given is that appearing on the title page of the last edition and where no place is given after the publisher's name, London is understood.

Subjects not dealt with in this Guide are Medicine, Law and Dentistry, but books on Pharmacy, Hygiene, Hospital and Veterinary work, Commercial and Industrial Law find a place. A section relating to Education and Methods of Teaching has been

included, but it has been found impossible to name all the school books now in print.

My thanks are gratefully rendered to all the publishers who have kindly allowed me to see their books, and to the gentlemen who have read the proofs of sections relating to professions or industries in which they were specially interested. I am also indebted to the *English Catalogue*, the *Publishers' Circular* (London), and the *Publishers' Weekly* (New York), and the excellent library of the Patent Office, London, for the dates of publication of many of the books.

E. G.

19 Ludgate Hill, London, E.C.
September, 1904.

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AGRICULTURE AND FARMING.

Agriculture—Elementary.

AGRICULTURE, by R. H. Wallace, for Students. Cr. 8vo. 352 pp. 136 Illus. 1895. Chambers, 3s.

AGRICULTURE, Elementary Course, by W. T. Lawrence. Post 8vo. 184 pp. Illus. 1893. Chambers, 2s.

AGRICULTURAL TEXTBOOK, for Elementary Students, by J. Wrightson, Gl. 8vo. 263 pp. 19 Illus. Collins, 2s. 6d.

CATECHISM OF PRACTICAL AGRICULTURE, revised by J. Macdonald. Cr. 8vo. 96 pp. 1894. Blackwood, 1s. limp.

ELEMENTARY AGRICULTURE, by R. P. Wright. Fcp. 8vo. Blackie, 1s. 6d.

ELEMENTARY AGRICULTURE, by H. J. Webb, Ph.D., B.Sc. Cr. 8vo. 3rd ed. 196 pp. 34 Illus. 1896. Longmans, 2s. 6d.

ELEMENTARY LESSONS IN THE Science of Agricultural Practice, by H. Tanner. Fcp. 8vo. 310 pp. 1893. Macmillan, 3s. 6d.

ELEMENTS OF AGRICULTURE, for Schools, by J. B. McBryde. 12mo. 270 pp. 1901. B. F. Johnson Pub. Co., Richmond, Va. (U.S.A.), 60c.

FIRST PRINCIPLES OF AGRICULTURE, by E. B. Voorhees (U.S.A.). Cr. 8vo. 212 pp. 1899. Gay & Bird, 4s. 6d.

LIGHTER BRANCHES OF AGRICULTURE, by Edith Bradley and B. la Mothe. Cr. 8vo. 368 pp. 1903. Chapman, 5s.

PRINCIPLES OF AGRICULTURE, ed. by L. H. Bailey (U.S.A.). Gl. 8vo. 2nd ed. 300 pp. 92 Illus. 1900. Macmillan, 4s. 6d.

PRINCIPLES OF AGRICULTURE, by R. P. Wright. Fcp. 8vo. 2nd ed. 206 pp. Blackie, 1s. 6d.

Agriculture—Advanced.

ADVANCED AGRICULTURE, for Students, by H. J. Webb, Ph.D., B.Sc. Cr. 8vo. 672 pp. 100 Illus. 1894. Longmans, 7s. 6d.

AGRICULTURE, PRACTICAL AND Scientific, by J. Muir. Cr. 8vo. 343 pp. 39 Illus. 49 Tables. 1895. Macmillan, 4s. 6d.

ELEMENTS OF AGRICULTURAL GEOLOGY: Scientific Aid to Practical Farming, by P. McConnell. Royal 8vo. 330 pp. 1902. Lockwood, 21s.

TEXTBOOK OF PHYSICS OF AGRICULTURE, by F. H. King (U.S.A.). Cr. 8vo. 2nd ed. 603 pp. 276 Illus. 1901. Gay & Bird, 8s.

Agriculture—Tropical.

FUTURE OF THE DATE PALM IN India, by E. Bonavia, M.D. Cr. 8vo. Thacker, 2rs. 8an.

MANUAL OF AGRICULTURE FOR India, by Lt. F. Pogson. Illus. Cr. 8vo. Thacker, 5rs.

TEXTBOOK OF TROPICAL AGRICULTURE, by H. A. A. Nicholls. Cr. 8vo. 312 pp. 16 Illus. 1900. Macmillan, 6s.

TROPICAL AGRICULTURE: Cultivation, Preparation for Shipment and Commercial Value of Substances obtained from Tropical Trees and Plants, by P. L. Simmonds. Demy 8vo. 2nd ed. 520 pp. Spon, 21s.

Agricultural Chemistry.

ADULTERATION ACTS: Treatise on Fertilisers, Feeding Stuffs and Food Adulteration Acts, by R. J. Kelly, B.L. Official Guide, Ltd., Dublin, 1s. 6d.

ADULTERATION OF AGRICULTURAL Fertilisers and Feeding Stuffs, by F. H. Cripps-Day. Royal 12mo. 1894. Stevens & Sons, 5s.

Agricultural Chemistry, *continued.*

AGRICULTURAL ANALYSIS (Quantitative), for Students, by F. T. Addyman, B.Sc. Cr. 8vo. 200 pp. 49 Illus. 1893. Longmans, 5s.

AGRICULTURAL CHEMISTRY, by R. H. Adie, M.A., B.Sc., and T. B. Wood, M.A. 2 vols. Cr. 8vo. 1897. Vol I. 280 pp. 18 Illus. Air, Water, Metals, Salts, etc., 3s. 6d. Vol. II. 229 pp. 18 Illus. Soil, Manures, Foods, etc., 3s. 6d. Paul.

CATECHISM OF AGRICULTURAL Chemistry, revised by C. M. Aikman from Sir Chas. A. Cameron's ed. Cr. 8vo. 96 pp. 31 Illus. 1894. Blackwood, 1s. limp.

CHEMISTRY OF SOILS AND FERTILISERS, by H. Snyder (U.S.A.). Cr. 8vo. 277 pp. 33 Illus. 1899. Gay & Bird, 7s. 6d.

CHEMISTRY OF THE FARM, by R. Warington. Cr. 8vo. 15th ed. 1902. Vinton, 2s. 6d.

ELEMENTS OF AGRICULTURAL Chemistry, by J. F. W. Johnston, revised by C. M. Aikman, M.A., D.Sc. Cr. 8vo. 17th ed. 482 pp. 23 Illus. 1894. Blackwood, 6s. 6d.

EXPERIMENTAL COURSE OF CHEMISTRY, for Agricultural Students, by T. S. Dymond. Cr. 8vo. 192 pp. 50 Illus. E. Arnold, 2s. 6d.

FERTILISERS AND FEEDING STUFFS: Their Properties and Uses, by B. Dyer, D.Sc. Cr. 8vo. 3rd ed. 130 pp. 1898. Lockwood, 1s. limp.

LABORATORY GUIDE FOR AGRICULTURAL Students, by A. H. Church. 8vo. 7th ed. 286 pp. 1894. Gurney & J., 6s. 6d.

LECTURES ON SOME OF THE PHYSICAL Properties of Soil, by R. Warington. Royal 8vo. 231 pp. 1900. Frowde, 6s.

MANUAL OF AGRICULTURAL CHEMISTRY, by H. Ingle. Demy 8vo. 388 pp. 11 Illus. 1902. Scott, Greenwood, 7s. 6d.

PRINCIPLES AND PRACTICE OF AGRICULTURAL Chemical Analysis, by H. W. Wiley (U.S.A.). 3 vols. Vol. I. Soils. 607 pp. 62 Illus. 31 Plates, 20s. Vol. II. Fertilisers. 332 pp. 17 Illus., 10s. Vol. III. Agricultural Products. 665 pp. 125 20s. Gay & Bird.

THE SOIL: Introduction to the Study of Growth of Crops, by A. D. Hall, M.A. Cr. 8vo. 1903. J. Murray, 3s. 6d.

THE SOIL: Its Nature, Relations and Fundamental Principles of Management, by F. H. King. Fcp. 8vo. Macmillan, 3s.

Agricultural Holdings Act.

AGRICULTURAL HOLDINGS ACT, by J. W. W. Bund, M.A., LL.B. Post 8vo. 2nd ed. 428 pp. 1883. Butterworth, 12s.

AGRICULTURAL HOLDINGS ACTS, 1883 and 1900, and other Agricultural Statutes, by J. M. Lely, M.A., and W. H. Aggs, M.A., LL.M. Demy 8vo. 1901. Clowes, 27s. 6d.

AGRICULTURAL HOLDINGS (ENGLAND) Acts, 1883-1900, with explanatory notes, forms, Allotments Act, 1887, etc., by A. J. Spencer. Demy 8vo. 2nd ed. 168 pp. 1901. Stevens & Sons, 7s. 6d.

LAW OF AGRICULTURAL HOLDINGS, Acts of 1883 and 1900, by S. Mayer, B.A., Ph.D. Demy 8vo. 4th ed. 167 pp. 1900. Waterlow, 5s. 9d.

MANUAL OF LAW RELATING TO Small Agricultural Holdings, by C. D. Forster. 12mo. 1892. Stevens & Sons, 2s. 6d.

Agricultural Law.

DIXON'S LAW OF THE FARM, including Agricultural Customs, by A. J. Spencer. Demy 8vo. 5th ed. 1892. Clowes, 26s.

ELEMENTS OF AGRICULTURAL LAW, by A. P. Higgins. Cr. 8vo. 2nd ed. 162 pp. 1901. Vinton, 3s. 6d.

Agricultural Rates Act.

AGRICULTURAL RATES ACT, 1896, with Notes by W. C. Ryde, M.A. Cr. 8vo. 2nd ed. 1896. Shaw & Sons, 4s. limp.

AGRICULTURAL RATES ACT, 1896, with notes, by S. Wright. Cr. 8vo. 68 pp. 1896. *Estates Gazette*, 2s. 6d. boards.

Bee-keeping.

A B C OF BEE CULTURE, by A. I. Root (U.S.A.). Royal 8vo. 474 pp. Plates and Illus. 1901. Kegan Paul, 6s. 6d.

BEE-KEEPER'S GUIDE, by A. J. Cook (U.S.A.). Large cr. 8vo. 16th ed. 452 pp. 222 Illus. Kegan Paul, 7s. 6d.

BEE-KEEPING FOR BEGINNERS, by W. Chitty. Cr. 8vo. 96 pp. 1903. Paul, 1s. 6d.

BEES FOR PLEASURE AND PROFIT, by G. G. Samson. Cr. 8vo. 2nd ed. 1901. Lockwood, 1s.

BOOK OF BEE-KEEPING, by W. B. Webster. Cr. 8vo. 2nd ed. 103 pp. Illus. 1901. Upcott Gill, 1s. paper.

BOOK OF THE HONEY BEE, by C. Harrison. Cr. 8vo. 144 pp. Illus. 1903. Lane, 2s. 6d.

BRITISH BEE-KEEPER'S GUIDE BOOK, by T. W. Cowan. 12mo. 18th ed. 180 pp. 88 Illus. 1904. Houlston, 2s. 6d.

HIVE AND THE HONEY BEE, by Langstroth (U.S.A.). Large cr. 8vo. 530 pp. 19 Plates. 196 Illus. 1890. Kegan Paul, 9s.

HONEY BEE: its Nature, Homes and Products, by W. H. Harris, B.A. Cr. 8vo. 82 Illus. R. T. S., 5s.

LIFE OF THE BEE, trans. from M. Maeterlinck. Cr. 8vo. 352 pp. 1901. G. Allen, 5s.

PLEASURABLE BEE-KEEPING, by C. N. White. Cr. 8vo. E. Arnold, 2s. 6d.

RATIONAL BEE-KEEPING, trans. from German of Dr. Dzierzon. Cr. 8vo. 350 pp. Illus. 1882. Houlston, 2s. 6d.

Cattle—Live Stock.

AGRICULTURAL ZOOLOGY, by Dr. J. Ritzema Bos, trans. by J. R. Ainsworth Davis. Cr. 8vo. 2nd ed. 312 pp. 155 Illus. 1900. Methuen, 3s. 6d.

ANIMAL BREEDING, by T. Shaw. Cr. 8vo. 1902. Kegan Paul, 7s. 6d.

BEST BREEDS OF BRITISH STOCK: Guide for Farmers and Owners of Live Stock in England and Colonies, by J. P. Sheldon and J. Long. Med. 8vo. 130 pp. 1898. Thacker, 2s. 6d.

CATTLE AND CATTLE BREEDERS, by W. M'Combie. Cr. 8vo. 4th ed. 158 pp. 1886. Blackwood, 3s. 6d.

CATTLE: BREEDS AND MANAGEMENT, by W. Housman and W. Axe. Demy 8vo. 2nd ed. 272 pp. 33 Illus. 1900. Vinton, 3s. 6d.

CATTLE, SHEEP AND PIGS OF GREAT Britain. Breeds: Their History and Management, ed. by J. Coleman. Demy 8vo. 491 pp. Plates. 1887. Horace Cox, 12s. 6d.

COMPLETE GRAZIER AND FARMER'S and Cattle Breeder's Assistant, by W. Youatt, ed. by W. Fream. Imp. 8vo. 14th ed. 1100 pp. 450 Illus. 1900. Lockwood, 31s. 6d.

COW-KEEPING IN INDIA, by I. Tweed. Cr. 8vo. 2nd ed. 287 pp. 40 Illus. 1900. Thacker, 6s.

FARM LIVE STOCK OF GREAT Britain, by R. Wallace. Demy 8vo. 3rd ed. 374 pp. 79 Plates. 1893. Lockwood, 12s. 6d.

JERSEY CATTLE: Their Feeding and Management. Demy 8vo. 112 pp. 1903. Vinton, 3s. 6d.

LIVE STOCK, by W. T. Carrington, etc. Cr. 8vo. 4th ed. 156 pp. Illus. Vinton, 2s. 6d.

LIVE STOCK IN HEALTH AND Disease: Breeding and Management of Horses, Cattle, Sheep, Goats, Pigs and Poultry, ed. by Prof. J. Prince-Sheldon. Cassell, in parts 1s. each.

MANUAL OF CATTLE FEEDING, by H. P. Armsby. 12mo. 526 pp. Wiley, N.Y., $1.75.

SHORTHORN CATTLE, by A. H. Sanders. 8vo. 872 pp. 92 Illus. 1 Plate. Vinton, 15s.

STUDY OF BREEDS OF CATTLE, Sheep and Swine, by T. Shaw (U.S.A.). Cr. 8vo. 371 pp. Illus. 1901. Gay & Bird, 7s. 6d.

Pigs.

PIG-KEEPING FOR PROFIT, by W. J. Malden. Cr. 8vo. 120 pp. 1896. Kegan Paul, 2s. 6d.

PIGS: BREEDS AND MANAGEMENT, by S. Spencer, including Diseases and Bacon Curing. Demy 8vo. 2nd ed. 180 pp. 20 Illus. 1898. Vinton, 3s. 6d.

THE PIG: HOW TO CHOOSE, BREED, Rear, Keep and Cure, by S. Sidney. Cr. 8vo. 151 pp. Plates. Routledge, 1s.

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Sheep.

SHEEP: BREEDS AND MANAGEMENT, by J. Wrightson. Demy 8vo. 3rd ed. 236 pp. 23 Illus. 1898. Vinton, 3s. 6d.

SHEEP RAISING AND SHEPHERDING, by W. J. Malden. Cr. 8vo. 160 pp. Plates and 30 Illus. 1899. Upcott Gill, 3s. 6d.

SHEEP: STRUCTURE, ECONOMY and Diseases, by W. C. Spooner. Cr. 8vo. 5th ed. Illus. Lockwood, 3s. 6d.

(For Veterinary Books on Live Stock see section 69.)

Crops—Soils.

BEST FORAGE PLANTS: Their Cultivation, Economic Value, Impurities and Adulterants, trans. from F. G. Stebler and C. Schröter. 4to. 171 pp. 30 col. Plates. 1887. D. Nutt, 12s. 6d.

DISEASES OF CROPS AND THEIR Remedies, by G. B. Griffiths. Cr. 8vo. 173 pp. 51 Illus. 1890. Bell, 2s. 6d.

FALLOW AND FODDER CROPS, by J. Wrightson. Large cr. 8vo. 276 pp. 1889. Chapman & Hall, 5s.

FARM CROPS, for Students, by J. Wrightson, M.R.A.C. Cr. 8vo. 224 pp. 79 Illus. 1893. Cassell, 2s. 6d.

FORAGE CROPS OTHER THAN Grasses: How to Cultivate, Harvest and Use Them, by T. Shaw (U.S.A.). Cr. 8vo. 287 pp. Illus. 1901. Gay & Bird, 5s.

GUIDE TO SCIENTIFIC EXAMINATION of Soils, by F. Wahnschaffe, trans. by W. T. Braunt. Cr. 8vo. 177 pp. Illus. 1892. Baird, Philadelphia, $1.50.

HOW CROPS FEED, by S. W. Johnson, M.A. (U.S.A.). Cr. 8vo. 375 pp. 1899. Kegan Paul, 10s.

HOW CROPS GROW, by S. W. Johnson, M.A. (U.S.A.). Cr. 8vo. 2nd ed. 416 pp. 69 Illus. 1900. Kegan Paul, 10s.

SOILING CROPS AND THE SILO, by T. [illegible] (U.S.A.). Cr. 8vo. 366 pp. Illus. 1900. Gay & Bird, 7s. 6d.

SOILS AND THEIR PROPERTIES, by W. Fream. Small post 8vo. 160 pp. 21 Illus. 1 Plate. Bell, 2s. 6d.

SPRAYING CROPS: Why, When and How, by C. M. Weed, D.Sc. (U.S.A.). Post 8vo. 2nd ed. 130 pp. 40 Illus. 1894. Kegan Paul, 1s. 6d. paper.

THE CROPS, by T. Bowick, etc. Cr. 8vo. 7th ed. 150 pp. Vinton, 2s. 6d.

Dairy Chemistry.

BACTERIA IN MILK AND ITS PRODUCTS, by H. W. Conn. (U.S.A.). Cr. 8vo. 1903. Rebman, 6s.

BUTTER: ITS ANALYSIS AND ADULTERATIONS, Specially Treating on the Detection and Determination of Foreign Fats, by O. Hehner and A. Angell. Post 8vo. 2nd ed. 86 pp. 1 Illus. 1877. Churchill, 3s. 6d.

CHEMICAL AND PHYSICAL ANALYSIS of Milk: Condensed Milk and Infants' Milk Food, by N. Gerber. 8vo. Van Nostrand, N.Y., $1.25.

CHEMISTRY OF DAIRYING, by H. Synder, B.Sc. (U.S.A.). Sq. cr. 8vo. 156 pp. 1897. Gay & Bird, 7s. 6d.

DAIRY BACTERIOLOGY: Manual for Students, trans. from Ed. von Freudenreich. Cr. 8vo. 2nd ed. 115 pp. 1895. Methuen, 2s. 6d.

DAIRY CHEMISTRY, for Dairy Managers, Chemists and Analysts, by H. D. Richmond. Large 8vo. 384 pp. 22 Illus. 1899. Griffin, 16s.

MILK ANALYSIS: Examination of Milk, Cream, Butter and Cheese, by J. A. Wanklyn, M.R.C.S. Cr. 8vo. 2nd ed. 76 pp. Illus. 1886. Kegan Paul, 5s.

MILK: ITS NATURE AND COMPOSITION, by C. M. Aikman, M.A., D.Sc. Cr. 8vo. 2nd ed. 180 pp. 21 Illus. 1899. A. & C. Black, 3s. 6d.

PASTEURISATION AND STERILISATION of Milk, by A. E. Bell. 16mo. 36 pp. 13 Illus. 1899. Rebman, 1s. 6d.

Dairy and Dairy Work.

BRITISH DAIRY FARMING, also Chief Continental Systems, by J. Long. Large cr. 8vo. 503 pp. 1885. Chapman & Hall, 9s.

BOOK OF THE DAIRY, trans. from W. Fleischmann. Demy 8vo. 344 pp. 85 Illus. 1896. Blackie, 10s. 6d.

BRITISH DAIRYING, for Students, by J. P. Sheldon. Cr. 8vo. 2nd ed. Illus. Lockwood, 2s. 6d.

CHEESE AND BUTTER-MAKING, for Students, by J. Oliver and M. Barron. Cr. 8vo. 80 pp. 52 Illus. Bemrose, 1s.

CHEESE AND CHEESE - MAKING, Butter and Milk, including Continental Fancy Cheeses, by J. Long and J. Benson. Cr. 8vo. 150 pp. 1896. Chapman & Hall, 3s. 6d.

ECONOMICS IN DAIRY FARMING, by E. Mathews. Royal 8vo. 80 pp. 1903. Newnes, 7s. 6d.

ELEMENTS OF DAIRY FARMING, for Elementary Students, by J. Long. Gl. 8vo. 208 pp. 17 Illus. Collins, 2s.

FARM AND THE DAIRY, by J. P. Sheldon. Cr. 8vo. 160 pp. 18 Illus. 1900. Bell, 2s. 6d.

HANDBOOK FOR FARMERS AND Dairymen, by F. W. Woll (U.S.A.). Cr. 8vo. Chapman, 6s. 6d.

MANUAL OF DAIRY WORK, by Jas. Muir. Post 8vo. 93 pp. 1893. Macmillan, 1s.

MILK AND ITS PRODUCTS : Nature and Qualities of Dairy Milk and the Manufacture of Butter and Cheese, by H. H. Wing. Gl. 8vo. 3rd ed. 311 pp. 37 Illus. 1900. Macmillan, 4s.

MILK, CHEESE AND BUTTER : Their Properties and Processes of Production, by J. Oliver. Cr. 8vo. 362 pp. 218 Illus. 2 Plates. 1894. Lockwood, 7s. 6d.

MILK : ITS PRODUCTIONS AND USES, by G. T. Wilson. Cr. 8vo. 270 pp. 1903. Griffin, 6s.

PRACTICAL DAIRY HUSBANDRY, by X. A. Willard. 8vo. Illus. Kegan Paul, 15s.

PRINCIPLES OF MODERN DAIRY Practice, from a Bacteriological point of view, by G. Grotenfelt (U.S.A.), trans. by F. W. Woll. Cr. 8vo. 3rd ed. 286 pp. 29 Illus. 1899. Chapman, 10s. 6d.

THE DAIRY, by J. Long and J. C. Morton. Cr. 8vo. 4th ed. 148 pp. Vinton, 2s. 6d.

Farming.

BOOK OF THE FARM, rewritten by J. Macdonald. 4th ed. 1891. Vol. I. 532 pp. Vol. II. 520 pp. Vol. III. 526 pp. Total of 744 Illus. Blackwood & Sons, 63s.

ELEMENTS OF FARMING, by P. McConnell. 148 pp. 1896. Vinton, 2s. 6d.

FARMERS' AND MECHANICS' MANUAL, ed. by G. E. Waring, Jr. 576 pp. 632 Illus. E. B. Treat & Co., N.Y., $3.

FARMER'S HARVEST COMPANION and Country Gentleman's Assistant, by T. Jarvis. Cr. 8vo. 224 pp. 1903. Simpkin, 3s. 6d.

FARMERS' OWN BOOK, by S. O. Beeton. Cr. 8vo. 632 pp. 210 Illus. Ward, Lock, 3s. 6d.

FARMING INDUSTRIES OF CAPE Colony, by R. Wallace. Demy 8vo. 552 pp. 92 Illus. 81 Plates. 14 Maps. 1896. P. S. King, 10s. 6d.

FARM WORKMAN'S TECHNICAL INSTRUCTOR, by W. J. Malden. Cr. 8vo. 2nd ed. 166 pp. Illus. 1896. Vinton, 2s. 6d.

FOREIGNER IN THE FARM YARD, by E. E. Williams. Cr. 8vo. 176 pp. 1897. Heinemann, 2s. 6d.

NOTE - BOOK OF AGRICULTURAL Facts and Figures, for Farmers and Students, by P. McConnell, B.Sc. 12mo. 6th ed. 468 pp. 1898. Lockwood, 6s.

OUTLINES OF MODERN FARMING, by R. S. Burn. 6th ed. 1250 pp. Lockwood, 12s.

PRACTICAL FARM DRAINAGE, by C. G. Elliott. 12 mo. 1903. Wiley, N.Y., $1.

SMALL FARM AND ITS MANAGEMENT, by J. Long. Cr. 8vo. 285 pp. 1901. Smith, Elder, 6s.

SYSTEMATIC SMALL FARMING, by R. S. Burn. Cr. 8vo. Lockwood, 6s.

TABLES FOR MEASURING AND MANURING Land and Thatchers' Work, by J. Cullyer. 18mo. 18th ed. 150 pp. Whittaker, 2s. 6d.

Farming, *continued.*

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Farm Buildings and Implements.

BARN IMPLEMENTS AND MACHINES, by Prof. J. Scott. Cr. 8vo. 123 Illus. 1884. Lockwood, 2s.

FARM BUILDINGS AND ECONOMICAL Agricultural Appliances, by W. J. Malden. Small cr. 8vo. 192 pp. Illustrated. 1896. Paul, 5s.

FARM BUILDINGS, by Prof. J. Scott. Cr. 8vo. 1884. Lockwood, 2s.

FARM APPLIANCES, by G. A. Martin. Cr. 8vo. 1903. Kegan Paul, 2s. 6d.

TILLAGE AND IMPLEMENTS, by W. J. Malden. Cr. 8vo. 156 pp. 48 Illus. 1891. Bell, 2s. 6d.

Farm Book - keeping, Insurance, Surveying and Valuing.

AGRICULTURAL ACCOUNTS (including Income-Tax), by T. W. Meats. Demy 8vo. 114 pp. 1901. Gee & Co., 5s.

AGRICULTURISTS' CALCULATOR; 46 Tables for Land Measuring, Drainage, Manuring, Weight of Hay, Cattle, etc. Fcp. 8vo. 590 pp. Blackie, 9s.

AGRICULTURAL INSURANCE, in Organic Connection with Savings Banks, Land Credit, and the Commutation of Debts, trans. from German of P. Mayet. Demy 8vo. 388 pp. Tables. 1893. Sonnenschein, 10s. 6d.

AGRICULTURAL SURVEYOR AND Estate Agent's Handbook, by T. Bright. Fcp. 8vo. 420 pp. 1899. Lockwood, 7s. 6d.

AGRICULTURAL VALUER'S ASSISTANT, by T. Bright. 4th ed. 240 pp. 1901. Lockwood, 6s.

BOOK-KEEPING FOR FARMERS AND Estate Owners, by J. M. Woodman. Cr. 8vo. 4th ed. 1902. Lockwood, 2s. 6d.

FARM ACCOUNTS, and Matters Relating Thereto, paper by J. M. Woodman. Cr. 8vo. 23 pp. 1897. Gee, 1s. paper.

FARM BOOK - KEEPING, by W. Inglis. Cr. 8vo. 39 pp. Chambers, 6d. sewed.

FARM REGISTER FOR TENANTS' Vouchers and Improvements, by a Practical Expert. Obl. 4to. 2nd ed. 1902. Simpkin, 2s.

LOXLEY'S IMPROVED FARMERS' Account Book. Obl. 4to. Houlston, 3s. 6d.

NOTES ON THE VALUATION OF Agricultural Tenant-Right, by G. S. Mitchell. Cr. 8vo. 84 pp. 1900. *Estates Gazette*, 3s. 6d.

Feeding Animals, Pastures.

CONVERSION OF ARABLE LAND TO Pasture, by W. J. Malden. Small cr. 8vo. 190 pp. 1898. Kegan Paul, 3s. 6d.

FARM FOODS; OR THE RATIONAL Feeding of Farm Animals, trans. from Prof. E. von Wolff. Post 8vo. 6th ed. 365 pp. 1895. Gurney & J., 8s. 6d.

FEEDING OF ANIMALS, by W. H. Jordan (U.S.A.) Gl. 8vo. 450 pp. 1901. Macmillan, 5s.

FEEDS AND FEEDING, for the Farm, by W. A. Henry (U.S.A.). Large 8vo. 3rd ed. 660 pp. 1901. Vinton, 10s.

GRASSES: Handbook for use in Field and Laboratory, by H. M. Ward. Cr. 8vo. 198 pp. 1901. C. J. Clay, 6s.

HAY AND STRAW MEASURER, by J. Steele. Cr. 8vo. Lockwood, 2s.

PERMANENT AND TEMPORARY PASTURES, by M. J. Sutton. Royal 8vo. Illus. with 23 varieties of Natural Grasses, Clovers, etc., and containing 46 Analyses of Grasses, etc., by Dr. J. A. Voelcker. 21s. With Illus. and Analyses, 1s. Simpkin.

PRINCIPLES OF ANIMAL NUTRITION, with Special Reference to the Nutrition of Farm Animals, by H. P. Armsby, Ph.D. 8vo. 614 pp. 1903. Wiley, N.Y., $4.

Ferrets, Goats, Hares, Rabbits.

FERRETS AND FERRETING, by W. Carnegie. Cr. 8vo. 3rd ed. 70 pp. 1902. Upcott Gill, 1s.

BOOK OF THE GOAT: Various Breeds and their Profitable Manage-

ment, by H. S. H. Pegler. 3rd ed. 222 pp. 8 Plates. 1886. Upcott Gill, 4s. 6d.

STANDARD BELGIAN HARE MANUAL, compiled by G. F. Hall. 12mo. 35 Illus. 1901. Laird & Lee, Chicago, 75c.

BOOK OF THE RABBIT AND RABBIT Farming, ed. by K. W. Knight. Demy 8vo. 2nd ed. 480 pp. 45 Illus. 1889. Upcott Gill, 10s. 6d.

PRACTICAL RABBIT-KEEPER, by "Cuniculus". Cr. 8vo. 212 pp. 25 Illus. Cassell, 3s. 6d.

(**Dogs.** See section 17).

(**Flowers.** See section 27.)

Forestry.

BRITISH FOREST TREES AND their Sylvicultural Characteristics and Treatment, by J. Nisbet. Cr. 8vo. 352 pp. 1893. Macmillan, 6s.

BRITISH TREES, by S. Tollemache, B.A. Roy. 8vo. 31 plates. 1901. Sampson Low, 14s.

ECONOMICS OF FORESTRY, by B. E. Fernow. 8vo. 520 pp. 1902. T. Y. Crowell & Co., N.Y., $1.50.

ELEMENTS OF FORESTRY, by F. B. Hough, Large cr. 8vo. 1883. Lockwood, 10s.

FORESTRY IN THE UNITED KINGDOM, by W. Schlich. 76 pp. 1904. Bradbury, Agnew, 2s.

HANDBOOK OF TREES OF NEW England, by L. L. Dane and H. Brooks (U.S.A.). Cr. 8vo. 196 pp. Illus. Ginn, 6s. 6d.

MANUAL OF FOREST ENGINEERING for India, by C. G. Rogers. Vol. II. 256 pp. 118 Illus. 1902. Office of Public Printing, Calcutta, 6s.

MANUAL OF FORESTRY SYLVICULTURE, by W. Schlich. Royal 8vo. 3rd ed. 400 pp. 87 Illus. 1904. Bradbury, Agnew, 8s.

NEW FORESTRY, OR CONTINENTAL System adapted to British Woodlands, by J. Simpson. Demy 8vo. 200 pp. Illus. 1903. Pawson & Brailsford, Sheffield, 15s.

POLE PLANTATIONS AND UNDERWOODS, by T. Bright. Cr. 8vo. Lockwood, 3s. 6d.

PRACTICAL FORESTRY, by A. D. Webster. Demy 8vo. 3rd ed. 208 pp. Illus. 1894. Rider, 5s.

PRACTICAL FORESTRY, AND ITS bearing on the Improvement of Estates, by C. E. Curtis. Cr. 8vo. 2nd ed. 132 pp. 1898. Crosby Lockwood, 3s. 6d.

PRUNING BOOK, by L. H. Bailey, U.S.A. Gl. 8vo. 2nd ed. 544 pp. 331 Illus. 1899. Macmillan, 5s.

STUDIES IN FORESTRY, Lectures on Sylviculture, by J. Nisbet. Cr. 8vo. 330 pp. 1894. Frowde, 6s.

TIMBER: Comprehensive Study of Wood in all its Aspects (Commercial and Botanical), trans. from French of P. Charpentier. Roy. 8vo. 437 pp. 178 Illus. 1902. Scott, Greenwood, 12s. 6d.

TREE PLANTER, PROPAGATOR AND Pruner, by S. Wood. Cr. 8vo. Lockwood, 3s. 6d.

TREE PRUNING: Treatise on Pruning Forest and Ornamental Trees, trans. from French of Count des Cars. Cr. 8vo. 64 pp. 54 Illus. 1893. Rider, 2s. 6d.

TREES AND SHRUBS FOR ENGLISH Gardens, by C. T. Cook. Roy. 8vo. 482 pp. 1902. Newnes, 12s. 6d.

(**Timber.** See section 68.)

Fruit Growing.

AMERICAN FRUIT CULTURIST, by J. J. Thomas (U.S.A.). Cr. 8vo. 758 pp. 800 Illus. Gay & Bird, 12s. 6d.

ART OF GRAFTING AND BUDDING, by C. Baltet. Cr. 8vo. 1882. Lockwood, 2s. 6d.

BOOK OF PEARS AND PLUMS, by L. Bartrum. Cr. 8vo. 108 pp. 1902. Lane, 2s. 6d.

BOOK OF THE APPLE, with Chapters on History, Cookery and Preparation of Cider, by H. H. Thomas. Cr. 8vo. 124 pp. 1902. Lane, 2s. 6d.

BOOK OF THE PEACH, by H. W. Ward. Cr. 8vo. 128 pp. 1903. W. Scott, 2s. 6d.

BOOK OF THE STRAWBERRY, with Chapters on the Raspberry, Blackberry, etc., by E. Beckett. Cr. 8vo. 1902. J. Lane, 2s. 6d.

Fruit Growing, *continued.*

CALIFORNIA FRUITS AND HOW TO Grow Them, by E. J. Wickson, M.A. (U.S.A.). Demy 8vo. 3rd ed. 477 pp. Plates and Illus. 1900. Kegan Paul, 12s. 6d.

CULTURE OF FRUIT AND VEGETABLES, by G. Glenny. Cr. 8vo. 5th ed. 380 pp. 1878. Houlston, 5s. 6d.

FRUITS AND FRUIT TREES OF America. Culture and Management of Fruit Trees generally, by C. Downing. 8vo. Illus. Kegan Paul, 25s.

FRUIT CULTURE FOR AMATEURS, by S. T. Wright. Cr. 8vo. 2nd ed. 244 pp. 58 Illus. 1898. Upcott Gill, 3s. 6d.

FRUIT GROWERS' YEAR BOOK. Illustrated Directory of Fruit Growers. 350 pp. annually. Cable Pub. Co., 1s.

FRUIT HARVESTING, STORING AND Marketing, by F. A. Waugh (U.S.A.). 12mo. 1902. Paul, 5s.

THE FIG: ITS HISTORY, CULTURE, Curing. Descriptive Catalogue of known varieties of Figs, by G. Eisen. 8vo. 318 pp. 16 Illus. 1902. Wesley, 5s.

HANDY BOOK OF FRUIT CULTURE under Glass, by D. Thomson. Cr. 8vo. 2nd ed. 321 pp. Illus. 1881. Blackwood & Sons, 7s. 6d.

HANDBOOK FOR FRUIT GROWERS, by F. R. Elliott (U.S.A.). Sq. cr. 8vo. 144 pp. Illus. 1903. Kegan Paul, 2s. 6d.

ORANGE CULTURE IN FLORIDA, Louisiana and California, by T. W. Moore (U.S.A.). 16mo. 4th ed. Kegan Paul, 5s.

PICTORIAL PRACTICAL FRUIT Growing, by W. P. Wright. Cr. 8vo. 150 pp. 108 Illus. 1901. Cassell, 1s. 6d.

PLUMS AND PLUM CULTURE, by Prof. F. A. Waugh (U.S.A.). Cr. 8vo. 371 pp. Illus. 1901. Gay & Bird, 7s. 6d.

PRACTICAL FRUIT CULTURE, by J. Cheal. Cr. 8vo. 2nd ed. 194 pp. 53 Illus. 1898. Bell, 2s. 6d.

PRINCIPLES OF FRUIT GROWING, by L. H. Bailey (U.S.A.). Gl. 8vo. 3rd ed. 508 pp. 114 Illus. 1900. Macmillan, 5s.

QUICK FRUIT CULTURE; New Methods for Gardens great and small, by J. Simpson. Demy 8vo. 147 pp. Illus. Pawson & Brailsford, Sheffield, 7s. 6d.

SCIENTIFIC AND PROFITABLE CULTURE of Fruit Trees, from French of du Breuil. Trans. by G. Glenny. 187 Illus. 1883. Lockwood, 3s. 6d.

SYSTEMATIC POMOLOGY, by J. L. Budd. 12mo. 490 pp. Wiley, N.Y., $1.50.

Grapes.

AMERICAN GRAPE GROWING AND Wine Making, by G. Husmann (U.S.A.). 12mo. Illus. 269 pp. 4th ed. 1900. Kegan Paul, 7s. 6d.

BOOK OF THE GRAPE, by H. W. Ward. Cr. 8vo. Lane, 2s. 6d.

GRAPE CULTURIST: Cultivation of the Native Grape, by A. S. Fuller (U.S.A.). Cr. 8vo. 282 pp. 101 Illus. 1899. Kegan Paul, 7s. 6d.

PRACTICAL TREATISE ON THE CULTIVATION of the Grape Vine, by W. Thomson. Roy. 8vo. 10th ed. 106 pp. Illus. 1890. Blackwood, 5s.

VINEYARD CULTURE IMPROVED AND Cheapened, by A. du Breuil. Trans. by E. and C. Parker. 12mo. 144 Illus. R. Clarke Co., Cincinnati, $2.

(Gardening. See section 27.)

(Horses. See section 31.)

Insects and Vermin.

ECONOMIC ENTOMOLOGY: APTERA, by A. Murray. Large cr. 8vo. Illus. Chapman & Hall, 3s. 6d.

ECONOMIC ENTOMOLOGY FOR Farmer and Fruit-Grower, by J. B. Smith, Sc.D. (U.S.A.). Large cr. 8vo. 480 pp. 483 Illus. 1896. Lippincott, 12s.

FARM AND GARDEN INSECTS, by W. Somerville. Pott 8vo. 125 pp. 46 Illus. 1897. Macmillan, 1s.

FARM INSECTS INJURIOUS TO FIELD Crops and Granaries, by J. Curtis. Super roy. 8vo. 516 pp. 16 Col. Plates and 69 Illus. 1883. Gurney & J., 21s.

FARM VERMIN—HELPFUL AND Hurtful, ed. by J. Watson. Cr. 8vo. 86 pp. Illus. Rider, 2s. 6d.

GARDEN PESTS, by P. Allen. Demy 8vo. 240 pp. 1903. W. Gardner, 3s. 6d.

INJURIOUS AND USEFUL INSECTS, by L. C. Miall. Cr. 8vo. 264 pp. 1902. Bell, 3s. 6d.

INSECTS AND INSECTICIDES: PESTS and Methods of Preventing their Injuries, by C. M. Weed, D.Sc. (U.S.A.). Cr. 8vo. 2nd ed. 334 pp. 176 Illus. 16 Plates. 1899. Kegan Paul, 7s. 6d.

INSECTS INJURIOUS TO FRUITS, by W. Saunders. Post 8vo. 2nd ed. 440 Illus. Lippincott, 10s. 6d.

INSECTS INJURIOUS TO STAPLE Crops, by E. D. Sanderson, B.S. 12mo. 295 pp. 162 Illus. Wiley, N.Y., $1.50.

OBSERVATIONS ON INJURIOUS INSECTS and Common Farm Pests during 1900, Prevention and Remedy, by E. A. Ormerod. 1901. Simpkin, 1s. 6d.

Irrigation, Land Drainage.

AGRICULTURAL ENGINEERING IN India—Irrigation, by J. R. C. Nicholls. Cr. 8vo. Illus. *Engineering*, 3s. 6d.

COMPLETE TEXTBOOK OF FARM Engineering, by J. Scott. Cr. 8vo. 1150 pp. 600 Illus. 1885. Lockwood, 12s.

DRAINING FOR PROFIT AND DRAINING for Health, by G. E. Waring, Jr. (U.S.A.). Post 8vo. Spon, 4s. 6d.

DRAINAGE OF FENS AND LOW Lands by Gravitation and Steam Power, by W. H. Wheeler. Large cr. 8vo. 175 pp. 8 Plates. 1888. Spon, 12s. 6d.

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EGYPTIAN IRRIGATION, by W. Willcocks. Roy. 8vo. 2nd ed. 485 pp. 46 Plates. Illus. 1899. Spon, 30s.

ENGINEERING FOR LAND DRAINAGE, by C. G. Elliott. 12mo. 1903. Wiley, N.Y., $1.50

FARM DRAINAGE: PRINCIPLES, Processes and Effects of Draining Land with Stones, Wood-plows, Open Ditches and Tiles, by H. F. French (U.S.A.). Cr. 8vo. Spon, 7s. 6d.

IRRIGATED INDIA. AUSTRALIAN View of India and Ceylon, their Irrigation and Agriculture, by Hon. A. Deakin. Demy 8vo. 322 pp. Map. 1893. Thacker, 8s. 6d.

IRRIGATION AND DRAINAGE, PRINCIPLES and Practice of their Cultural Phase, by F. H. King. Globe 8vo. 504 pp. 162 Illus. 1899. Macmillan, 6s.

IRRIGATION FARMING, by L. Wilcox (U.S.A.). Cr. 8vo. 312 pp. 95 Illus. 1900. Kegan Paul, 10s.

IRRIGATION WORKS IN INDIA AND Egypt, by R. B. Buckley. Imp. 8vo. Maps, Plans. Spon, 63s.

LAND DRAINAGE, by C. S. Mitchell. Demy 8vo. 2nd ed. 120 pp. 1899. *Land Agents' Record*, 5s.

MANUAL OF IRRIGATION ENGINEERING, by H. M. Wilson (U.S.A.). Large cr. 8vo. 4th ed. 538 pp. 124 Illus. 1903. Chapman, 17s.

PIONEER IRRIGATION, by E. O. Mawson. Med. 8vo. 276 pp. 1904. Lockwood, 10s. 6d.

PRINCIPLES AND PRACTICE OF Land Drainage, by J. H. Klippart. 12mo. 2nd ed. 100 Illus. Clarke Co., Cincinnati, $1.

RECLAMATION AND PROTECTION OF Agricultural Land, by D. Stevenson. Sq. cr. 8vo. 70 pp. 12 Illus. 1874. A. & C. Black, 4s. 6d.

RESERVOIRS FOR IRRIGATION, Water-Power and Domestic Water Supply, by J. D. Schuyler (U.S.A.). Roy. 8vo. 432 pp. 183 Illus. 25 Plates. 1901. Chapman, 21s.

(**Hydraulics.** See **Engineering,** section 21.)

Manures, Fertilisers.

ARTIFICIAL MANURES, HOW TO Make, Buy, Value and Use, by A. Sibson. Cr. 8vo. 3rd ed. 152 pp. 1901. *Mark Lane Express*, 1s.

BONE PRODUCTS AND MANURES, by T. Lambert. Demy 8vo. 162 pp. 21 Illus. 1901. Scott, Greenwood, 7s. 6d.

FARMYARD MANURE: ITS NATURE, Composition and Treatment, by C. M. Aikman, M.A., D.Sc. Cr. 8vo. 65 pp. 1892. Blackwood, 1s. 6d.

Manures, Fertilisers, *continued.*

FERTILIZERS: The Source, Character and Composition of Natural, Home-made and Manufactured Fertilizers, by E. B. Voorhees. Gl. 8vo. Macmillan, 4s. 6d.

MANURES AND MANURING, by Prof. Scott. Official Guide, Ltd., Dublin, 1s.

MANURES AND THE PRINCIPLES OF Manuring, by C. M. Aikman, M.A., D.Sc. Cr. 8vo. 592 pp. 1894. Blackwood, 6s. 6d.

MANURES AND THEIR USES, by A. B. Griffiths. Small post 8vo. 160 pp. 10 Illus. 1900. Bell, 2s. 6d.

MANURES: THEIR SOURCES, COMPOSITION and Application, by E. W. Bell. Cr. 8vo. 120 pp. 1897. Cable Pub. Co., 1s. 6d. paper.

MANURING OF HOPS, by B. Dyer. 8vo. 1903. Vinton, 1s.

MANURING OF MARKET GARDEN Crops, by B. Dyer and F. W. E. Shrivell. 8vo. 1903. Vinton, 1s.

PURE FERTILIZERS, AND THE CHEMICAL Conversion of Rock Guanos, etc., into various Valuable Products, by C. Morfit, M.D. Demy 8vo. 547 pp. 28 plates. 1873. Paul, 84s.

SCHOOL OF CHEMICAL MANURES, from French of Geo. Ville. Trans. by A. A. Fesquet. Cr. 8vo. 116 pp. Illus. Baird, Philadelphia, $1.25.

SPECIAL MANURES FOR GARDEN Crops, by A. B. Griffiths, Ph.D. Cr. 8vo. 2nd ed. 128 pp. 1900. Collingridge, 2s.

TREATISE ON MANURES: The Philosophy of Manuring, by A. B. Griffiths, Ph.D. Cr. 8vo. 3rd ed. 450 pp. 20 Illus. 1904. Whittaker, 7s. 6d.

(See also **Agricultural Chemistry** above.)

Poultry Farming and Game Preserving—Poultry.

FARM POULTRY, for Farmer and Amateur, by G. C. Watson (U.S.A.). Gl. 8vo. 342 pp. 1901. Macmillan, 5s.

GUIDE TO SUCCESS IN POULTRY Keeping, by G. W. Bacon. Cr. 8vo. 130 pp. 1901. Bacon, 1s.

NEW BOOK OF POULTRY, by L. Wright and J. W. Ludlow. 4to. 608 pp. 45 Plates. 1902. Cassell, 21s.

NEW EGG FARM: Management of Poultry on a Large Scale for Commercial Purposes, by H. H. Stoddard (U.S.A.). 12mo. 329 pp. 150 Illus. 1901. Gay & Bird, 5s.

OUR POULTRY AND ALL ABOUT Them, by H. Weir. 2 vols. 350 Illus. 18 Coloured Plates. Vol. I. 4to. 450 pp. 1903. Hutchinson, 14s.

POULTRY BOOK; Selection, Rearing and General Treatment, by L. C. R. N. Elye. Cr. 8vo. 188 pp. 1902. Ward, Lock, 1s.

POULTRY FOR TABLE AND MARKET *versus* Fancy Fowls, by W. B. Tegetmeier. Demy 8vo. 2nd ed. 135 pp. Illus. 1898. H. Cox, 2s. 6d.

POULTRY KEEPING AND HOW TO Make it Pay, by F. C. Wilson. Cr. 8vo. 126 pp. 1902. Pearson, 1s.

POULTRY KEEPING IN INDIA, by J. Tweed. Cr. 8vo. Illus. Thacker, 6s.

POULTRY MANAGEMENT ON A Farm: Three Years and Balance Sheet, by W. Palmer. Demy 8vo. 92 pp. Plates. 1902. Constable, 1s.

POULTRY: Their Classification, Varieties, Treatment and Diseases, by E. Brown. Demy 8vo. 24 Illus. Dean, 2s.

POULTRY YARD: Management of Fowls for Use and Exhibition, by Miss E. Watts. Cr. 8vo. 1902. Routledge, 1s.

PRACTICAL POULTRY KEEPER, by L. Wright. Cr. 8vo. 311 pp. Illus. 8 Coloured Plates. 1901. Cassell, 3s. 6d.

THE BUSINESS HEN: Breeding and Feeding Poultry for Profit, by H. W. Collingwood (U.S.A.). Cr. 8vo. 149 pp. Gay & Bird, 5s.

UTILITY FOWL FEEDING AND Management, by H. Francklin. Sq. 8vo. 36 pp. 1903. Dawbarn, 6d.

UTILITY FOWL-HOUSES AND APPLIANCES, by H. Francklin. Sq. 8vo. 36 pp. 44 Illus. 1903. Dawbarn, 6d. paper.

Poultry Diseases.

AILMENTS OF POULTRY, by F. T. Barton. Fcp. 8vo. Dean, 1s.

PARASITIC DISEASES OF POULTRY, by F. V. Theobald. Post 8vo. 110 pp. 23 Illus. 1894. Gurney & J., 2s. 6d.

Turkeys.

TURKEYS AND HOW TO GROW Them, ed. by H. Myrick (U.S.A.). Cr. 8vo. Illus. Gay & Bird, 5s.

TURKEY CULTURE, by F. J. Crangle (U.S.A.). 8vo. Illus. 1901. Excelsior Wire Co., N.Y., 50c.

Game.

GAME BIRDS: THEIR HABITS, Modes of Capture, Stages of Plumage and Hybrids, by J. G. Millais. Sq. 8vo. 185 pp. Illus. 1894. Sotheran, 18s.

GAMEKEEPER'S ANNUAL. Cr. 8vo. 72 pp. Illus. Johnson, Riddle & C., 1s. paper.

KEEPER'S BOOK: DUTIES OF A Gamekeeper, by A. S. Walker and P. J. Mackie. Cr. 8vo. 1904. Simpkin, 3s. 6d.

PHEASANTS: THEIR NATURAL HISTORY and Practical Management, by W. B. Tegetmeier. Demy 8vo. 3rd ed. 237 pp. Illus. 1897. Horace Cox, 7s. 6d.

PRACTICAL GAME PRESERVING: Rearing and Preserving Winged and Ground Game, by W. Carnegie. Demy 8vo. 570 pp. 44 Illus. 1884. Upcott Gill, 10s. 6d.

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CULTIVATION AND PREPARATION of Tobacco in India, by Dr. F. Watson. 1871. B. Quaritch, 5s.

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TOBACCO LEAF: ITS CULTURE AND Cure, Marketing and Manufacture, by J. B. Killebrew & H. Myrick (U.S.A.). Cr. 8vo. 520 pp. Gay & Bird, 10s.

SECTION 2.

AIR, AERIAL NAVIGATION.

Air—Analysis and Uses.

AIR ANALYSIS, with Appendix on Illuminating Gas, by J. A. Wanklyn and W. J. Cooper. Cr. 8vo. 2nd ed. 82 pp. 9 Plates and Illus. 1891. Kegan Paul, 5s.

AIR, WATER AND DISINFECTANTS, by C. H. Aikman, M.A., D.Sc. 12mo. 128 pp. 1895. S.P.C.K., 1s.

COMPRESSED AIR: ITS PRODUCTION, Uses and Applications, by G. D. Hiscox. Large 8vo. 820 pp. 545 Ill. 1901. Henley & Co., New York, $5.

COMPRESSED AIR, by F. Richards (U.S.A.). Cr. 8vo. 203 pp. 1898. Chapman, 6s. 6d.

DRYING BY MEANS OF AIR AND Steam: Explanations, Formulæ and Tables for Use in Practice, trans. from German of E. Hausbrand. Cr. 8vo. 72 pp. 2 Diagrams. 13 Tables. 1901. Scott, Greenwood, 5s.

GASES OF THE ATMOSPHERE, by W. Ramsay. Large cr. 8vo. 240 pp. 1896. Macmillan, 6s.

LESSONS ON AIR, for Junior Students, by A. E. Hawkins, B.Sc. Cr. 8vo 12mo. 2nd ed. 188 pp. Illus. 1896. Rivingtons, 2s. 6d.

LIQUID AIR AND THE LIQUEFACTION of Gases, by Sloane. 2nd ed. 365 pp. Illus. N. W. Henley & Co., N.Y., $2 50.

OZONE AND ANTOZONE: Their History and Nature, by C. B. Fox, M.D. 8vo. 329 pp. Col. Plates. 1873. Churchill, 12s. 6d.

OZONE: ITS COMMERCIAL PRODUCTIONS and its Applications, by E. Andreoli. Demy 8vo. 90 pp. 34 Illus. 1893. *Electrical Review*, 2s. 6d. paper.

PURE AIR, OZONE AND WATER: Their Utilisation and Value in Oil, Grease, Soap, Paint, Glue, and other Industries, by W. B. Cowell. Cr. 8vo. 85 pp. 12 Illus. 1900. Scott, Greenwood, 5s

Aerial Navigation, Kites.

AERIAL NAVIGATION: CONSTRUCTION of Dirigible Balloons, Aerostats, Aeroplanes, Aeromotors, by F. Walker. Cr. 8vo. 168 pp. 100 Illus. 1902. Lockwood, 7s. 6d.

Aerial Navigation, Kites, *continued.*

AERIAL NAVIGATION: HOW FAR it is Practicable, by J. S. Krauss. 8vo. 1901. Simpkin, Marshall, 1s.

BALLOONING: HISTORY AND PRINCIPLES, by G. May. Cr. 8vo. 100 pp. Illus. 1885. Whittaker, 2s. 6d.

PARAKITES: MAKING AND FLYING Tailless Kites for Scientific Purposes and Recreation, by G. T. Woglom (U.S.A.). 4to. 90 pp. Plates. 1896. Putnam's, 7s. 6d.

PRACTICAL KITES AND AEROPLANES, by F. Walker. Cr. 8vo. 78 pp. 1903. G. Pitman, 1s. 6d.

(**Arbitration.** See section 40.)

SECTION 3.

ARCHITECTURE AND BUILDING.

Architecture.

ARCHITECTURE OF RENNAISSANCE in Italy, for Students, by W. J. Anderson. Roy. 8vo. 3rd ed. 206 pp. 64 Collotypes. 1901. Batsford, 12s. 6d.

ARCHITECT'S GUIDE, by F. Rogers. Cr. 8vo. 1884. Lockwood, 3s 6d

ARCHITECTURAL EXAMPLES IN Brick, Stone, Wood and Iron, by W. Fullerton. Demy 4to. 2nd ed. 254 pp. 220 plates. Spon, 15s.

CIVIL ARCHITECTURE, by E. Shaw, 4to. 11th ed. 102 Plates. Baird, Philadelphia, $6.

DECORATIVE PART OF CIVIL ARCHITECTURE, by Sir W. Chambers. With an Examination of Grecian Architecture, by J. Gwilt. 4to. 66 Plates. Lockwood, 21s.

ELEMENTARY ARCHITECTURE, for Students, by M. A. Buckmaster. Cr. 8vo. 144 pp. 38 Illus. 1898. Frowde, 4s. 6d.

ELEMENTS OF ARCHITECTURE, compiled by H. Wotton. Roy. 16mo. 1903. Longmans, 10s. 6d.

HANDBOOK OF ARCHITECTURAL Styles, trans. from A. Rosengarten by W. Collett-Sandars. Demy 8vo. 508 pp. 639 Illus. 1901. Chatto, 7s. 6d.

HINTS TO YOUNG ARCHITECTS, by G. Wightwich. Cr. 8vo. 5th ed. Lockwood, 3s. 6d.

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SEVEN PERIODS OF ENGLISH ARCHITECTURE defined and illustrated, by S. Sharpe, M.A. Roy. 8vo. 20 Illus. Spon, 12s. 6d.

Dictionaries, Encyclopædias.

CONCISE GLOSSARY OF TERMS used in Grecian, Roman, Italian and Gothic Architecture, by J. H. Parker. Fcp. 8vo. 331 pp. 500 Illus. 1900. J. Parker & Co., 7s. 6d.

DICTIONARY OF ARCHITECTURE and Building, by R. Sturgis (U.S.A.). 8vo. Vol. I., A-E. 471 pp. 35 Plates. II., F-N. 530 pp. 34 Plates. III., O-Z. 1901. Macmillan, 25s. each.

DICTIONARY OF TERMS USED IN Architecture, by J. Weale. Cr. 8vo. 6th ed. Lockwood, 5s.

DICTIONARY OF TERMS USED IN Architectural Design and Building Construction, with French and German equivalents, by R. S. Burn. 8vo. 300 pp. 38 Plates. Batsford, 5s.

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ENCYCLOPEDIA OF ARCHITECTURE, by P. Nicholson. 2 vols. 1300 pp. 215 Plates. J. S. Ogilvie Pub. Co., N.Y., $10.

GLOSSARY OF TECHNICAL TERMS used in Architecture and the Building Trades, by G. J. Burns. Cr. 8vo. Spon, 3s. 6d.

HANDBOOK OF TECHNICAL TERMS used in Architecture, Building and their Allied Trades and Subjects, by A. C. Passmore. Demy 8vo. 380 pp. 1904. Scott, Greenwood, 7s. 6d.

Drawing, Designing.

APPLIED PERSPECTIVE FOR ARCHITECTS and Painters, by W. P. P. Longfellow (U.S.A.). 4to. 95 pp. 36 Plates. 1901. Gay & Bird, 13s. 6d.

ARCHITECTURAL DRAWING, by R. P. Spiers. Revised ed. 4to. 68 pp. Plates. 1902. Cassell, 7s. 6d.

ARCHITECTURAL DRAWING, by C. F. Edminster. Obl. med. 8vo. 100 pp. 96 Plates. D. Williams Co., N.Y., $2.

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HINTS ON ARCHITECTURAL Draughtsmanship, by G. W. T. Hallatt. 18mo. 3rd ed. Spon, 1s. 6d.

PRACTICAL LESSONS IN ARCHITECTURAL Drawing, by W. B. Tuthill. Large 8vo. 11th ed. 44 pp. text. 33 Plates. 33 Illus. 1903. Comstock, N.Y., $2.50.

PRINCIPLES AND PRACTICE OF LINEAR Perspective Developed along Original Lines, for Architects, Civil and Mechanical Engineers, etc., by H. T. C. Kraus (U.S.A.). Obl. folio. 14 Plates. Spon, 10s. 6d.

PRINCIPLES OF ARCHITECTURAL Perspective, for Students, by G. A. T. Middleton. Demy 8vo. 78 pp. 1903. Batsford, 2s. 6d.

PRINCIPLES OF ARCHITECTURAL Planning, with Notes on Aspect, by P. L. Marks. Large 8vo. 126 pp. 80 Plans. 1901. Batsford, 6s.

THEORY AND PRACTICE IN THE Designing of Modern Framed Structures, by Johnson, Bryan and Turnlaure (U.S.A.). Super roy. 8vo. 7th ed. 525 pp. 48 Plates. 1899. Chapman, 42s.

(See also Drawing, Designs, etc., under **Art**, section 4.)

Gothic Architecture.

A B C OF GOTHIC ARCHITECTURE, by J. H. Parker, C.B., M.A. Sq. 16mo. 11th ed. 265 pp. 200 Illus. 1900. J. Parker & Co., 3s.

GOTHIC ARCHITECTURE, from French of E. Corroyer. Cr. 8vo. 388 pp. 236 Illus. 1893. Seeley, 6s.

INTRODUCTION TO THE STUDY OF Gothic Architecture, by J. H. Parker. Fcp. 8vo. 13th ed. 331 pp. 200 Illus. 1900. J. Parker & Co., 5s.

MANUAL OF GOTHIC MOULDINGS, with Directions for Copying and Determining their Dates, by F. A. Paley. Demy 8vo. 6th ed. 132 pp. Plates. 1902. Gurney & J., 7s. 6d.

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DOMESTIC HOUSE PLANNER AND Sanitary Architect. Large cr. 8vo. 264 pp. 60 Illus. 16 Plates. 1891. Ward, Lock, 5s.

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MODERN ARCHITECTURAL PRACTICE; a Large Country House in Detail, by B. Price. Large 4to. Comstock, N.Y., $1.50.

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(STRAINS AND STRESSES. See **Engineering**, section 21, p. 102.)

Specifications, Price Books.

ARCHITECTS' AND BUILDERS' PRICE Book, with useful Memoranda and Tables, by W. Young, ed. by C. Young. Cr. 8vo. Annual. 12mo. 420 pp. Spon, 3s. 6d.

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COMPENDIUM REGISTERS: Lists of Architects, Surveyors, Builders and Contractors, Estate Managers, etc. Demy 4to. Annual. 184 pp. Compendium Pub. Co., 5s.

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(See also p. 18.)

Bricklaying, Plastering.

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(**Brickmaking.** See section 55.)

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TREATISE ON THE LAW OF BUILDING and Engineering Contracts and of the Duties and Liabilities of Engineers, Architects, Surveyors and Valuers, by A. A. Hudson. Roy. 8vo. 2nd ed. 2 vols. 1895. Clowes, 50s.

(See also **Property,** section 38.)

Building Materials.

HANDBOOK ON TESTING MATERIALS for the Constructor, by A. Martens, trans. by G. C. Henning (U.S.A.). Demy 8vo. 2 vols. Vol. I. 622 pp. 1899. Vol. II. 240 pp. of Illus. 1899. Chapman, 31s. 6d.

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BUILDERS' GUIDE AND ESTIMATORS' Price Book, by F. T. Hodgson. 12mo. Ogilvie Pub. Co., N.Y., $2.

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SPECIFICATIONS, by W. F. Bower. 2nd ed. 4to. 240 pp. Comstock, New York, $5.

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(See also p. 14.)

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PRACTICAL GUIDE TO FRENCH Polishing. Cr. 8vo. 6th ed. 144 pp. 42 Illus. E. Menken, 2s. 6d.

WOOD FINISHING, ed. by P. N. Hasluck. 12mo. 124 pp. 1901. Cassell, 1s.

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PRACTICAL UPHOLSTERY. Cr. 8vo. 7th ed. 68 pp. 1900. E. Menken, 2s. 6d.

UPHOLSTERERS' PATTERN BOOK, Designs for Mantel Boards, Draperies, Valances, etc. Fcp. folio. E. Menken, 10s. 6d.

SECTION 11.

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AVOIRDUPOIS WEIGHT CALCULATOR and Ready Reckoner, by A. E. King. Large cr. 8vo. 2nd ed. 304 pp. Warne, 2s. 6d.

CALCULATING TABLES, by H. Zimmermann. Trans. from German. Med. 8vo. 1904. Asher, 6s.

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Calculators, etc., *continued.*

PRODUCT CALCULATOR AND DAY Reckoner for Banks, by C. Barker. Cr. 8vo. 1901. Bemrose, 5s.

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WRIGLEY'S 55½ HOURS' WAGES Table. 4to. 1902. Simpkin, 2s. 6d.

(Foreign Money Exchange Tables, and Metric System. See section 25.)

SECTION 12.

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ARCHITECT'S JOINERY AND ITS Ornamentation, by F. A Fawkes. Large 4to. 82 Plates. 1896. Batsford, 5s.

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CARPENTRY AND JOINERY, for Students, by F. C. Webber. Cr. 8vo. 2nd ed. 320 pp. 176 Illus. 1901. Methuen, 3s. 6d.

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(**Timber.** See section 70.)

(**Turning.** See below.)

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SECTION 13.

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Ammonia, Coal Tar Distillation.

AMMONIA AND ITS COMPOUNDS: Their Manufacture and Uses, by C. Vincent, trans. from French. Royal 8vo. 114 pp. 32 Illus. 1901. Scott, Greenwood, 5s.

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BLOWPIPE ANALYSIS, by J. Landauer, trans. by J. Taylor, B.Sc. Globe 8vo. 168 pp. 1901. Macmillan, 4s. 6d.

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MANUAL OF QUANTITATIVE CHEMICAL Analysis, for Beginners, by E. F. Ladd (U.S.A.). 1899. Chapman, 4s. 6d.

QUALITATIVE ANALYSIS, by F. P. Treadwell, trans. by W. T. Hall. 8vo. 466 pp. 1903. Chapman, 12s. 6d.

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QUALITATIVE CHEMICAL ANALYSIS and Laboratory Practice, by T. E. Thorpe, B.Sc., Ph.D., and M. M. P. Muir, M.A. Fcp. 8vo. 246 pp. 57 Illus. 1898. Longmans, 3s. 6d.

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QUANTITATIVE CHEMICAL ANALYSIS, by Dr. C. R. Fresenius, trans. by A. I. Cohn. 8vo. 2 vols. 2076 pp. 280 Illus. 1903. Wiley, N.Y., $12.50.

QUANTITATIVE CHEMICAL ANALYSIS, for Students, by F. Clowes, D.Sc. Post 8vo. 5th ed. 616 pp. 122 Illus. 1900. Churchill, 10s.

QUANTITATIVE CHEMICAL ANALYSIS by Electrolysis, by Dr. A. Classen (U.S.A.), trans. from German. Demy 8vo. 295 pp. 93 Illus. 1903. Chapman, 12s. 6d.

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SYSTEM OF INSTRUCTION IN CHEMICAL Analysis, from German of R. Fresenius. Qualitative, trans. by C. E. Groves. 8vo. 10th ed. 481 pp. 46 Illus. and Plate. 1887. 15s. Quantitative. Vol. I. Trans. by A. Vacher. 8vo. 7th ed. 524 pp. 106 Engravings. 1876. 15s. Vol. II. Trans. by C. E. Groves. 8vo. 712 pp. 143 Engravings. 1900. 20s. Churchill.

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CHEMICAL AND METALLURGICAL Handbook of Tables, Formulæ and Information for Chemists and Mining Engineers, by J. H. Cremen and G. A. Bicknell (U.S.A.). Fcp. 8vo. 2nd ed. 337 pp. 1898. Scientific Pub. Co., 12s. 6d.

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CHEMISTS' POCKET BOOK, by T. Bayley. Obl. 32mo. 7th ed. 559 pp. 1900. Spon, 5s.

CHEMISTS' POCKET MANUAL. Tables, Formulæ, Calculations and Methods, by R. K. Meade, B.Sc. 16mo. 204 pp. 1900. Chemical Pub. Co., Easton, Pa., $2.

PHYSICO-CHEMICAL TABLES, by J. C. Evans. Vol. I. Chemical Engineering and Physical Chemistry. Roy. 8vo. 580 pp. 1902. Griffin, 24s.

PRACTICAL METHOD OF DETERMINING Molecular Weights, by H. Biltz, trans. by H. C. Jones and S. H. King, M.D. Illus. Chemical Pub. Co., Easton, Pa., $2.

Chemical Directories.

CHEMICAL MANUFACTURERS' DIRECTORY. Annual. Cr. 8vo. 150 pp. Simpkin, 2s. 6d.

CHEMICAL TRADES' DIRECTORY. Med. 8vo. 2nd ed. 1904. Davis Bros., Manchester, 21s.

CHEMISTS' AND DRUGGISTS' DIRECTORY. 10th ed. 1904. Kelly's, 20s.

Chemical Engineering, Laboratory Fitting.

HANDBOOK OF CHEMICAL ENGINEERING, by G. E. Davis. Roy. 8vo. 780 pp. 328 Illus. 1902. Davis Bros., Manchester, 31s. 6d.

PLANNING AND FITTING UP OF Chemical and Physical Laboratories, with Notes on Ventilation, Warming and Lighting of Schools, by F. H. Russell. Demy 8vo. 200 pp. 1903. Batsford, 7s. 6d.

MACHINERY AND APPARATUS FOR Manufacturing Chemists, by J. C. Shears. Super cr. 8vo. 93 pp. 16 Illus. 1895. Marlborough, 3s. 6d.

Chemical Technology.

CHEMICAL ESSAYS OF C. W. Scheele, trans. from Academy of Sciences at Stockholm in 1786. Demy 8vo. 300 pp. Re-issued 1901. Scott, Greenwood, 5s.

CHEMISTRY OF MANUFACTURING Processes, by B. Blount and A. G. Bloxam. Large cr. 8vo. 484 pp. 43 Illus. 1900. Griffin, 16s.

COMMERCIAL ORGANIC ANALYSIS, by A. H. Allen. Vol. I. Alcohols, Neutral Alcoholic Derivatives, etc., Ethers, Vegetable Acids, Starch, Sugars, etc. Roy. 8vo. 3rd ed. 569 pp. Illus. 1897. 18s. Vol. III., Part III. Vegetable Alkaloids, Non-Basic Vegetable Bitter Principles, Animal Bases, Animal Acids, Cyanogen, etc. 8vo. 2nd ed. 508 pp. 1896. 16s. Vol. IV. Proteids and Albuminous Principles. 8vo. 2nd ed. 590 pp. 1898. 18s. Churchill.

DICTIONARY OF APPLIED CHEMISTRY, by T. E. Thorpe, B.Sc., Ph.D., D.Sc. 3 vols. Vol. I. A-D. Med. 8vo. 715 pp. Illus. 1898. 42s. Vol. II. E-N. 714 pp. 1890. 42s. Vol. III. O-Z. 1058 pp. 1909. 63s. Longmans.

INTRODUCTION TO MODERN SCIENTIFIC Chemistry, trans. from Prof. Dr. Lassar-Cohn by M. M. P. Muir, M.A. Cr. 8vo. 348 pp. 58 Illus. 1901. Grevel, 6s.

Chemical Technology, *continued.*

MANUAL OF CHEMICAL TECHNOLOGY, by R. Wagner, Ph.D., trans. by Sir W. Crookes. Roy. 8vo. 2nd English ed. 992 pp. 596 Illus. 1900. Churchill, 32s.

MANUFACTURE OF ALUM AND the Sulphates and Other Salts of Alumina and Iron, from French of L. Geschwind. Roy. 8vo. 400 pp. 195 Illus. 1901. Scott, Greenwood, 12s. 6d.

OPTICAL ACTIVITY AND CHEMICAL Composition, trans. from Dr. H. Landolt. Cr. 8vo. 160 pp. 1900. Whittaker, 4s. 6d.

TECHNO-CHEMICAL RECEIPT-BOOK, by W. T. Brannt and W. H. Wahl. Cr. 8vo. 495 pp. 78 Illus. (U.S.A.) 1900. Low, 10s. 6d.

WATT'S DICTIONARY OF CHEMISTRY, by M. M. Pattison Muir, M.A., H. F. Morley, M.A., D.Sc., and others. 4 vols. Med. 8vo. Illus. Vol. I. A—Chemical Change. 752 pp. 1899. 42s. Vol. II. Chenocholic Acid—Indigo. 760 pp. 1899. 42s. Vol. III. India—Phenyl. 856 pp. 1901. 50s. Vol IV. Phenyl—Sodium. 922 pp. 1898. 63s. Longmans.

Chemistry—General.

CHEMISTRY FOR BEGINNERS, by E. Hart. 3rd ed. 245 pp. 62 Illus. 2 Plates. Chem. Pub. Co., Easton, Pa., $1.50.

CHEMISTRY FOR ORGANISED Schools of Science, by S. Parrish. Gl. 8vo. 262 pp. 108 Illus. 1901. Macmillan, 2s. 6d.

CHEMISTRY, GENERAL, MEDICAL and Pharmaceutical, by J. Attfield. Post 8vo. 18th ed. 885 pp. Illus. 1903. Gurney & J., 15s.

CHEMISTRY, INORGANIC AND ORGANIC, with Experiments, by C. L. Bloxam, revised by J. M. Thomson and A. G. Bloxam. 8vo. 9th ed. 872 pp. 284 Illus. 1903. Churchill, 18s.

COMPLETE TREATISE ON INORGANIC and Organic Chemistry, by Sir H. E. Roscoe and C. Schorlemmer. Demy 8vo. Vol. I. Non-metallic Elements. 888 pp. 374 Illus. and *Portrait.* 1894. 21s. Vol. II. The Metals. 1192 pp. 191 Illus. 1897. 31s. 6d. Vol. III., Part II. Organic Chemistry, Chemistry of Hydro-Carbons and their Derivatives. 755 pp. 168 Illus. 1890. 21s. Part III. Benzene Group. 388 pp. 1889. 18s. Part IV. Toluene and Benzoyl Groups. 544 pp. Illus. 1892. 21s. Part VI. Naphthalene Group. 582 pp. 1892. 21s. Macmillan.

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ELEMENTS OF MODERN CHEMISTRY, by A. Wurtz, trans. by W. H. Greene, M.D., and H. F. Keller, Ph.D. (U.S.A.). Cr. 8vo. 808 pp. 138 Illus. 1901. Lippincott, 10s. 6d.

ENCYCLOPÆDIA OF CHEMISTRY, Practical and Theoretical, by J. C. Booth and C. Morfit. 8vo. 8th ed. 978 pp. Illus. Baird, Philadelphia, $3.50.

INTRODUCTION TO CHEMISTRY, by D. S. Macnair, Ph.D., B.Sc. Cr. 8vo. 187 pp. 1903. Bell, 2s.

MANUAL OF INTRODUCTORY CHEMICAL Practice, by G. E. Caldwell and A. G. Breneman. 8vo. 4th ed. Illus. Van Nostrand, N.Y., $1.50.

NOTES FOR CHEMICAL STUDENTS, by P. T. Austen (U.S.A.). Cr. 8vo. 1898. Chapman, 6s. 6d.

OUTLINES OF THEORETICAL CHEMISTRY, trans. from Lothar Meyer by P. P. Bedson, M.A., B.Sc., and W. C. Williams, B.Sc. Demy 8vo. 2nd ed. 240 pp. 1899. Longmans, 9s.

PRINCIPLES OF CHEMISTRY, by D. Mendeleeff, trans. from Russian by G. Kamenstry. 2 vols. Demy 8vo. 1897. Vol. I. 621 pp. 77 Illus. Vol. II. 518 pp. 19 Illus. Longmans, 36s.

PROGRESSIVE COURSE OF CHEMISTRY, for Junior Classes, by T.

Varley, M.A., B.Sc. Sm. cr. 8vo. 312 pp. 166 Illus. 1900. A. & C. Black, 2s. 6d.

SELECT BIBLIOGRAPHY OF CHEMISTRY, 1492-1897. Section 8, Academic Dissertations (Smithsonian Coll.). 8vo. 540 pp. 1901. Wesley, 7s. 6d.

SELF EDUCATOR IN CHEMISTRY, by J. Knight, M.A. Cr. 8vo. 162 pp. 26 Illus. 1901. Hodder & Stoughton, 2s. 6d.

SHORT MANUAL OF INORGANIC Chemistry, by A. Dupré and H. W. Hake. Cr. 8vo. 408 pp. 1903. Griffin, 6s.

THE NEW CHEMISTRY, by Prof. J. P. Cook, LL.D. Cr. 8vo. 11th ed. 400 pp. 31 Illus. 1896. Kegan Paul, 5s.

THEORETICAL CHEMISTRY, trans. from W. Nernot by C. S. Palmer. 8vo. 698 pp. 26 Illus. 1895. Macmillan, 15s.

TUTORIAL CHEMISTRY, by G. H. Bailey, D.Sc. Part I. Non-metals, 3s. 6d. Part II. Metals, 3s. 6d. Cr. 8vo. 300 pp. 1897. Clive.

(See also below.)

Chemistry—Inorganic.

ADVANCED INORGANIC CHEMISTRY, Practical, by R. W. Stewart and W. Briggs. Cr. 8vo. 140 pp. 1902. Clive, 2s.

ADVANCED INORGANIC CHEMISTRY, Theoretical, by G. H. Bailey. Cr. 8vo. 2nd ed. 334 pp. Illus. 1898. Clive, 3s. 6d.

ELEMENTARY INORGANIC COURSE: Metals, by S. R. Trotman, M.A. Cr. 8vo. 180 pp. Illus. 1900. Rivingtons, 2s.

INORGANIC CHEMICAL PREPARATIONS, by F. H. Thorp, Ph.D. (U.S.A.). Large cr. 8vo. 238 pp. 1896. Ginn & Co., 7s.

INORGANIC CHEMISTRY, by Sir E. Frankland, D.C.L., LL.D., and F. R. Japp, M.A., Ph.D. 8vo. 805 pp. Illus. 1884. Churchill, 24s.

INORGANIC CHEMISTRY, by G. Wilson, M.D., revised by H. G. Madan, M.A. Cr. 8vo. 535 pp. 83 Illustrations. 1897. Chambers, 4s.

INORGANIC CHEMISTRY, First Stage, Practical, by F. Beddow. Cr. 8vo. 2nd ed. 164 pp. 37 Illus. 1900. Clive, 1s.

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INORGANIC CHEMISTRY: Metals and Non-metals, by R. Meldola, revised by J. Castell-Evans. Cr. 8vo. 6th ed. 320 pp. 36 Illus. 1901. Murby, 2s.

INORGANIC CHEMISTRY: Short Account of its more important Applications, by V. B. Lewes. Demy 8vo. 3rd ed. 340 pp. 1903. Whittingham, 3s. 6d.

INORGANIC CHEMISTRY, THEORETICAL and Practical, for Advanced Students, by W. Jago. Cr. 8vo. 7th ed. 476 pp. 1 Plate. 78 Illus. 1900. Longmans, 4s. 6d.

PRINCIPLES OF INORGANIC CHEMISTRY, by W. Ostwald, trans. by A. Findlay. Demy 8vo. 814 pp. 122 Illus. 1902. Macmillan, 18s.

SHORT MANUAL OF INORGANIC Chemistry, by A. Dupré and H. W. Hake. Large cr. 8vo. 3rd ed. 408 pp. 1901. Griffin, 9s.

STUDENT'S CHEMISTRY. Inorganic and Chemical Philosophy. 600 Questions, by R. L. Taylor. Cr. 8vo. 3rd ed. 358 pp. 1901. Low, 5s.

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TEXTBOOK OF INORGANIC CHEMISTRY, by A. F. Holleman, trans. by H. C. Cooper, Ph.D. (U.S.A.) 446 pp. 83 Illus. 1902. Chapman, 10s. 6d.

TEXTBOOK OF INORGANIC CHEMISTRY, by G. S. Newth. Cr. 8vo. 9th ed. 1902. Longmans, 6s. 6d.

THEORY OF INORGANIC CHEMISTRY, by Prof. V. von Richter, trans. by E. F. Smith (U.S.A.). Cr. 8vo. 5th ed. 430 pp. 68 Illus. 1901. Kegan Paul, 9s.

Chemistry—Organic.

CHEMISTRY OF CARBON COMPOUNDS, or Organic Chemistry, by W. A. Tilden, D.Sc. Cr. 8vo. 2nd ed. 662 pp. Illus. 1886. Churchill, 10s.

CHEMISTRY OF THE CARBON COMPOUNDS, or Organic Chemistry, trans. from Prof. V. von Richter by E. F. Smith (U.S.A.). 2 vols. Demy 8vo. 3rd ed. Vol. I. Aliphatic Series. 625 pp. 1901. Vol. II. Carbocyclic and Heterocyclic Series. 671 pp. 1900. Kegan Paul, 15s.

ELEMENTARY COURSE OF PRACTICAL Organic Chemistry, by F. C. Garrett, M.Sc., and A. Harden, M.Sc. Cr. 8vo. 72 pp. 14 Illus. 1897. Longmans, 2s.

ELEMENTARY ORGANIC ANALYSIS, by F. G. Benedict. 86 pp. 1900. Chem. Pub. Co., Easton, Pa., $4.

EXERCISES IN THE PREPARATION of Organic Compounds, trans. from E. Fischer by A. Kling. Cr. 8vo. 74 pp. Illus. Hodge & Co., Glasgow, 2s. 6d.

HANDBOOK OF INDUSTRIAL Organic Chemistry, for Manufacturers, Chemists, etc., by S. P. Saddler, Ph.D. (U.S.A.). Roy. 8vo. 3rd ed. 543 pp. 14 Diagrams. 127 Illus. 1900. Lippincott, 25s.

ORGANIC ANALYSIS, by A. B. Prescott. 8vo. 5th ed. Van Nostrand, N.Y., $5.

ORGANIC CHEMICAL MANIPULATION, by J. T. Hewitt, M.A., D.Sc., Ph.D. Cr. 8vo. 270 pp. 63 Illus. 1897. Whittaker, 4s. 6d.

ORGANIC CHEMISTRY, by W. H. Perkin, Jr., Ph.D., and F. H. Kipping, Ph.D., D.Sc. Cr. 8vo. 560 pp. 21 Illus. 1900. Chambers, 6s. 6d.

ORGANIC CHEMISTRY IN THE Laboratory, by W. A. Noyes, Ph.D. Chem. Pub. Co., Easton, Pa., $1.50.

ORGANIC CHEMISTRY, Laboratory Methods for Chemists and Pharmacists, trans. from Dr. Lassar-Cohn by A. Smith. Cr. 8vo. 403 pp. Illus. 1896. Macmillan, 8s. 6d.

ORGANIC CHEMISTRY: THE FATTY Compounds (Elementary Science Manual), by R. L. Whitely. Cr. 8vo. 291 pp. 45 Illus. 1895. *Longmans, 3s. 6d.*

OUTLINES OF INDUSTRIAL CHEMISTRY, for Students, by F. H. Thorp. 8vo. 541 pp. 95 Illus. 1898. Macmillan, 15s.

PRACTICAL ORGANIC CHEMISTRY, for the Elementary and Advanced Examinations of the Science and Art Department, by Geo. George. Cr. 8vo. 96 pp. 7 Illus. 1898. Clive, 1s. 6d.

PRACTICAL WORK IN ORGANIC Chemistry, by F. W. Streatfield. Cr. 8vo. Spon, 3s.

TEXTBOOK OF ORGANIC CHEMISTRY, by A. Bernthsen, Ph.D., trans. by G. M'Gowan. Cr. 8vo. Blackie, 7s. 6d.

Chemistry—Physical and Thermal.

ELEMENTS OF PHYSICAL CHEMISTRY, by J. L. R. Morgan, Ph.D. (U.S.A.). Cr. 8vo. 2nd ed. 322 pp. 23 Illus. 1902. Chapman, 8s. 6d.

ELEMENTS OF THERMAL CHEMISTRY, by M. M. P. Muir. Demy 8vo. 312 pp. 1 Plate. 1885. Macmillan, 12s. 6d.

OUTLINES OF PHYSICAL CHEMISTRY, trans. from French of A. Reychler. Cr. 8vo. 280 pp. 52 Illus. 1899. Whittaker, 4s. 6d.

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TEXT-BOOK OF PHYSICAL Chemistry, by Dr. R. A. Lehfeldt. Cr. 8vo. 308 pp. 39 Illus. 1899. E. Arnold, 7s. 6d.

Chemistry—Practical.

CHEMICAL LECTURE EXPERIMENTS, by F. G. Benedict (U.S.A.). Cr. 8vo. 436 pp. 1901. Macmillan, 8s. 6d.

CHEMICAL RECREATIONS: Manual of Experimental Chemistry, by J. J. Griffin. Cr. 8vo. 10th ed. 720 pp. 540 Illus. J. J. Griffin & Sons, 12s. 6d.

ELEMENTARY PRACTICAL CHEMISTRY, for Students, by A. J. Cooper, B.A., B.Sc. Cr. 8vo. 90 pp. 44 Illus. 1899. Whittaker, 2s.

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EXERCISES IN PRACTICAL CHEMISTRY, by A. G. Vernon-Harcourt and H. G. Madan. Cr. 8vo. 5th ed. 598 pp. 116 Illus. 1897. Frowde, 10s. 6d.

EXPERIMENTAL CHEMISTRY, founded on J. A. Stöckhardt's book, by C. W. Heaton. Cr. 8vo. 423 pp. 109 Illus. 1887. Bell, 5s.

EXPERIMENTAL CHEMISTRY, by J. Castell-Evans. Cr. 8vo. 4th ed. 200 pp., with key. Murby, 6s.

EXPERIMENTAL CHEMISTRY, by L. C. Newell. Cr. 8vo. 410 pp. 112 Illus. 1900. Isbister, 5s.

EXPERIMENTAL STUDY OF GASES, by M. W. Travers, D.Sc. Large 8vo. 320 pp. 130 Illus. 1901. Macmillan, 10s.

INDICATORS AND TEST PAPERS: Their Source, Preparation, Application and Tests for Sensitiveness, by A. I. Cohn (U.S.A.). 2nd ed. 267 pp. 1902. Chapman, 8s. 6d.

LABORATORY PRACTICE: Experiments on the Fundamental Principles of Chemistry, by Prof. J. P. Cook, LL.D. Cr. 8vo. 192 pp. 1892. Kegan Paul, 5s.

LABORATORY TEACHING: Progressive Exercises in Practical Chemistry, by A. G. Bloxam. Cr. 8vo. 324 pp. 80 Illus. 1893. Churchill, 6s. 6d.

PRACTICAL CHEMISTRY, by R. Abegg and W. Herz, trans. by H. T. Calvert, B.Sc. Demy 8vo. 132 pp. 1901. Macmillan, 6s.

PRACTICAL CHEMISTRY, by J. C. Brown, D.Sc. Part I. Qualitative Exercises and Analytical Tables, for Students. 8vo. 4th ed. 60 pp. 1897. Churchill, 2s. 6d.

PRACTICAL CHEMISTRY, by W. French, M.A. Part I. Cr. 8vo. Methuen, 1s. 6d.

PRACTICAL CHEMISTRY AND QUALITATIVE Analysis, for Students, by F. Clowes, D.Sc. Post 8vo. 7th ed. 538 pp. 102 Illus. 1899. Churchill, 8s. 6d.

(See also **Chemical Analysis** above.)

Electro-Chemistry and Electrolysis.

ELEMENTS OF ELECTRO-CHEMISTRY, Treated Experimentally, trans. from Dr. R. Lüpke, ed. by M. M. P. Muir, M.A. Demy 8vo. 2nd ed. 250 pp. 66 Illus. 1903. Grevel, 7s. 6d.

ELEMENTS OF ELECTRO-CHEMISTRY, trans. from Max Le Blanc by W. R. Whitney. Cr. 8vo. 282 pp. 33 Illus. 1896. Macmillan, 6s.

ELEMENTS OF STEREO-CHEMISTRY, by A. Hantzsch, trans. by C. G. L. Wolf. Cr. 8vo. 1901. Chemical Pub. Co., Easton, Pa., $1.50.

ELECTRO-CHEMICAL ANALYSIS, by E. F. Smith. Sq. 16mo. 25 Illus. Kegan Paul, 5s.

ELECTRO-CHEMISTRY, by G. Gore. 2nd ed. *Electrician*, 2s.

ELECTROLYSIS AND ELECTROSYNTHESIS of Organic Compounds, by Dr. W. Löb, trans. from German by H. W. F. Lorenz, Ph.D. (U.S.A.). Cr. 8vo. 1899. Chapman, 4s. 6d.

ELECTROLYTIC PREPARATIONS, by K. Ellis, trans. by R. S. Hutton. Demy 8vo. 112 pp. 1903. E. Arnold, 4s. 6d.

OUTLINES OF ELECTRO-CHEMISTRY, by H. C. Jones. 4to. 1902. Van Nostrand, N.Y., $1.50.

PRACTICAL ELECTRO-CHEMISTRY, by B. Blount. Demy 8vo. 374 pp. 47 Illus. 1901. Constable, 15s.

QUANTITATIVE CHEMICAL ANALYSIS by Electrolysis, by Prof. A. Classen (U.S.A.), trans. by B. B. Boltwood. Demy 8vo. 295 pp. 93 Illus. 1903. Chapman, 12s. 6d.

TEXT-BOOK OF ELECTRO-CHEMISTRY, by S. Arrhenius, trans. by J. McCrae. Demy 8vo. 356 pp. 58 Illus. 1902. Longmans, 9s. 6d.

THEORY OF ELECTROLYTIC DISSOCIATION and some of its Applications, by H. C. Jones. Large cr. 8vo. 288 pp. Illus. 1900. Macmillan, 7s.

Essential Oils, Perfumes.

CHEMISTRY OF ESSENTIAL OILS and Artificial Perfumes, by E. J. Parry, B.Sc. Demy 8vo. 411 pp. 20 Illus. 1899. Scott, Greenwood, 12s. 6d.

Essential Oils, Perfumes, *continued.*

CHEMISTRY OF THE TERPENES, by F. Heusler, Ph.D. 457 pp. 1902. Churchill, 17s.

COMMERCIAL ORGANIC ANALYSIS, by A. H. Allen. Vol. II., Part III. Acid Derivatives of Phenols, Aromatic Acids, Essential Oils, Terpenes, Camphors, Balsams, Resins, etc. Royal 8vo. 3rd ed. 1901. Churchill, 18s.

COMPLETE PRACTICAL TREATISE on Perfumery, by A. J. Cooley. 12mo. Baird, Philadelphia, $1.50.

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ODOROGRAPHIA: NATURAL HISTORY of Raw Materials and Drugs used in the Perfume Industry, by J. Ch. Sawer. Vol. I. Demy 8vo. 400 pp. 14 Illus. 1892. 12s. 6d. Vol. II. 530 pp. 24 Illus. 1894. 15s. Gurney & J.

PERFUMES AND THEIR PREPARATION, by Atkinson. 8vo. 300 pp. 32 Illus. N. W. Henley & Co., N.Y., $3.

PRACTICAL PERFUMERY. 130 Recipes. Demy 8vo. 3rd ed. 42 pp. 1896. *British and Col. Druggist*, 1s.

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RESEARCH ON THE EUCALYPTS, Especially in Regard to their Essential Oils, by R. T. Baker and H. G. Smith. 4to. 287 pp. Illus. 1902. W. A. Gullich, Phillip St., Sydney, N.S.W., 15s.

(**Fermentation.** See section 9.)

Pharmaceutical and Drug Trades.

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PHARMACY, by F. E. Stewart, M.D. 5th ed. Blakiston, Philadelphia, 80c.

POCKET-BOOK FOR PHARMACISTS, Medical Practitioners, Students, etc., by T. Bayley. Royal 32mo. 1898. Spon, 3s.

PRACTICAL PHARMACY, by E. W. Lucas. Royal 8vo. 548 pp. 283 Illus. 1898. Churchill, 12s. 6d.

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TREATISE ON PHARMACY, for Students and Pharmacists, by C. Caspari, Jr. Med. 8vo. 2nd ed. 776 pp. 301 Illus. 1902. H. Kimpton, 19s.

Pharmaceutical Chemistry.

ELEMENTARY COURSE IN INORGANIC Pharmaceutical and Medical Chemistry, by F. J. Wulling (U.S.A.). 12mo. Chapman, 8s. 6d.

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EXTRA PHARMACOPŒIA, by Martindale and Westcott. Med. 24mo. 11th ed. 688 pp. 1901. H. K. Lewis, 9s. 6d.

INDIGENOUS DRUGS OF INDIA. Short Descriptive Notices, by K. Lall Dey, Rai Bahadour. Demy 8vo. 2nd ed. 387 pp. Thacker, 18s.

PHARMACOPŒIA OF ST. THOMAS' Hospital, compiled by E. White, B.Sc. 12mo. 180 pp. (interleaved). 1902. H. H. G. Grattan, 2s. 6d.

PHARMACOPEDIA. Commentary on British Pharmacopœia, 1898, by E. White, B.Sc., and J. Humphrey. Cr. 4to. 696 pp. 1901. H. Kimpton, 14s.

PHARMACOGRAPHIA. History of the Principal Drugs of Vegetable Origin in Great Britain and India, by F. A. Flüctuger and D. Hanbury. Med. 8vo. 2nd ed. 800 pp. 1879. Macmillan, 21s.

Pharmacy Students' Manuals.

APOTHECARIES' HALL MANUAL for Students Preparing for the Dispenser's Certificate, by M. Thomson. 12mo. 244 pp. 1903. Whittaker, 2s.

GUIDE TO PRELIMINARY EXAMINATIONS for Pharmacy, etc., by W. Dodds. 8vo. 2nd ed. 156 pp. 1900. *Chemist and Druggist*, 2s. 6d.

MANUAL FOR ASSISTANTS' EXAMINATION, Apothecaries' Hall, by Mabel F. Stanley. Cr. 8vo. 281 pp. 1902. H. Renshaw, 3s. 6d.

Prescribing, Compounding, Dispensing Formulas.

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ART OF DISPENSING, prepared by P. MacEwan. 8vo. 6th ed. 490 pp. 1901. *Chemist and Druggist*, 5s. 6d.

COSMETICS: Manufacture, Employment and Testing of All Cosmetic Materials and Cosmetic Specialities, trans. from German of Dr. T. Koller. Cr. 8vo. 262 pp. 1902. Scott, Greenwood, 5s.

DISEASES AND REMEDIES, for Chemists and Druggists. 8vo. 2nd ed. 228 pp. 1901. *Chemist and Druggist*, 2s. 6d.

DISPENSING MADE EASY; Formulæ, etc., by W. G. Sutherland. 12mo. 102 pp. 1904. Simpkin, 3s. 6d.

DRUGGIST'S GENERAL RECEIPT-BOOK: Veterinary Formulary; Recipes in Patent and Proprietary Medicines, etc.; Perfumery and Cosmetics; Photographic Chemicals, etc., by H. Beasley. 18mo. 10th ed. 533 pp. 1895. Churchill, 6s. 6d.

HOW TO MAKE TABLETS, for Retail Druggists, by F. Edel. 32mo. 2nd ed. 42 pp. 1901. Spatula Pub. Co., Boston, U.S.A., 25c.

MANUAL OF FORMULÆ FOR Chemists: 1000 Recipes. Demy 8vo. 290 pp. 1892. *British and Colonial Druggist*, 1s. 6d.

MANUAL OF PHARMACEUTICAL Testing, by B. S. Proctor. 8vo. 2nd ed. 192 pp. 1899. *Chemist and Druggist*, 2s. 6d.

PHARMACEUTICAL FORMULAS, about 5000 Formulas, collated by Peter MacEwan. 5th ed. 664 pp. 1902. *Chemist and Druggist*, 7s. 6d.

PRACTICAL METHODS OF URINE Analysis, for Chemists and Druggists. 8vo. 2nd ed. 88 pp. 1902. *Chemist and Druggist*, 2s. 6d.

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VETERINARY COUNTER PRACTICE, for Chemists and Druggists. 8vo. 3rd ed. 344 pp. 1900. *Chemist and Druggist*, 3s. 6d.

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Sulphuric Acid, *continued.*

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JOINT-STOCK COMPANIES' PRACTICAL Guide, by H. Hurrell and C. G. Hyde. Demy 8vo. 7th ed. 402 pp. 1900. Waterlow, 6s.

LAW AND PRACTICE RELATING TO *the Formation of Companies*, by V. Nicholas. Royal 8vo. 1903. Sweet & Maxwell, 7s. 6d.

LAW AND PRACTICE UNDER COMPANIES Acts and Life Assurance Companies Acts, by Sir H. B. Buckley. 8th ed. Royal 8vo. 1902. Stevens & Haynes, 36s.

LAW OF DIRECTORS AND PROMOTERS' Liabilities, by R. S. Dean. 12mo. 1897. Clowes, 2s. 6d.

LAW OF JOINT-STOCK COMPANIES, by J. W. Smith, LL.D. 12mo. 237 pp. 1902. E. Wilson, 2s. limp.

LAW OF THE LIABILITY OF Directors and Promoters, by R. S. Deans, LL.B. Fcp. 8vo. 140 pp. 1897. Clement Wilson, 2s. 6d.

LAW RELATING TO RECONSTRUCTION and Amalgamation of Joint-Stock Companies, by P. F. Simonson, M.A. Royal 8vo. 174 pp. 1902. E. Wilson, 10s. 6d.

MANUAL OF LAW OF JOINT-STOCK Companies in Scotland, by A. McNeil. Cr. 8vo. 302 pp. 1901. W. Green & Sons, Edinburgh, 6s.

MANUAL OF PRACTICE UNDER Companies Act, 1900: Notes and Forms, by E. W. Nunne. Royal 8vo. 134 pp. 1902. Howard & Jones, 7s. 6d.

NOTES ON REGISTRATION, by J. R. Seager. Cr. 8vo. 8th ed. 200 pp. 1899. Bemrose, 3s. 6d.

NOTES ON THE COMPANIES ACT, 1900, with Forms, by L. W. Evans. Cr. 8vo. 4th ed. 188 pp. 1901. Ede & Allom, 2s. 6d.

POWERS, DUTIES AND LIABILITIES of Directors under the Companies Acts, 1862-90, by T. W. Haycraft. 12mo. E. Wilson, 1s. 6d.

PRACTICAL GUIDE TO COMPANY Law as Amended by Companies Act, 1900, by E. Manson. Post 8vo. 1900. Shaw & Sons, 5s.

PRACTICAL HINTS ON THE PREPARATION and Registration of Joint-Stock Companies' Forms, with Precedents, Fees and Stamp Duties. Demy 8vo. 5th ed. 84 pp. and Supplement. 1900. Waterlow, 2s. 6d.

PRIVATE COMPANIES AND SYNDICATES, by F. B. Palmer. Cr. 8vo. 18th ed. 1903. Stevens & Sons, 1s.

RESPONSIBILITIES OF DIRECTORS and Working of Companies under

the Companies Acts, 1862-1900, by A. Pulbrook. Cr. 8vo. 264 pp. 1901. E. Wilson, 3s. 6d.

SECRETARY'S MANUAL OF LAW and Practice of Joint-Stock Companies, by J. Fitzpatrick and V. de S. Fowke. Cr. 8vo. 9th ed. 377 pp. 1904. Jordan & Sons, 5s.

SECRETARIES OF PUBLIC COMPANIES and their Duties, by T. Brown. Demy 8vo. 3rd ed. 128 pp. 1901. H. Good & Son, 3s. 6d.

SUMMARY OF LAW OF COMPANIES, by T. E. Smith. 8vo. 8th ed. 1903. Stevens, 8s.

TREATISE ON COMPANY LAW under Acts 1862-1900, by G. F. Emery. Demy 8vo. 399 pp. 1901. E. Wilson, 21s.

TREATISE ON THE LAW OF COMPANIES, by Lord Lindley. 8vo. 2 vols. 6th ed. 1902. Sweet & Maxwell, 70s.

WINDING-UP OF COMPANIES AND Re-construction, by A. Emden. 8vo. 6th ed. 1902. Clowes, 17s. 6d.

(**Partnerships**. See below.)

Export, Shipping.

AUSTRALIAN HANDBOOK: Shippers', Importers' and Business Guide. Annual. Gordon & Gotch, 10s. 6d.

CONSULS' MANUAL, AND SHIPOWNERS' and Shipmasters' Practical Guide in their Transactions Abroad, by L. Joel. Demy 8vo. 388 pp. 1879. Kegan Paul, 12s.

EXPORT MERCHANT SHIPPERS' Directory of Great Britain and Ireland. Annual. Dean, 15s. 6d.

HINTS ON THE PACKING AND PRESERVATION of Merchandise in the Tropics. *Indian Textile Journal*, Bombay.

KELLY'S DIRECTORY OF MERCHANTS, Manufacturers and Shippers of the World. Imp. 8vo. 3600 pp. Annual. 30s.

MERCANTILE YEAR BOOK AND Directory of Exporters. Annual. *Mercantile Guardian*, 10s.

Partnership.

DIGEST OF LAW OF PARTNERSHIP, by Sir F. Pollock. Demy 8vo. 7th ed. *1900. Clowes, 10s.*

LAW OF PARTNERSHIP, by A. Underhill, M.A., LL.D. Post 8vo. 216 pp. 1899. Butterworth, 3s. 6d.

LAW OF PRIVATE TRADING PARTNERSHIP, including 1890 Act, by J. W. Smith, LL.D. 12mo. 127 pp. 1899. E. Wilson, 1s. 6d. limp.

PARTNERSHIP ACCOUNTS, by P. Child. Demy 8vo. 71 pp. 1896. Gee, 2s. 6d.

PARTNERSHIP AND COMPANIES: Manual of Practical Law, by P. F. Wheeler. Cr. 8vo. 1892. A. & C. Black, 5s.

SUMMARY OF THE LAW OF PARTNERSHIP, by S. Matthews (U.S.A.). 12mo. R. Clarke Co., Cincinnati, $1.25.

Trusts, Combinations.

MONOPOLIES AND TRUSTS, by R. T. Ely. Cr. 8vo. 278 pp. 1900. Macmillan, 5s.

TRUSTS, POOLS AND CORNERS, by J. S. Jeans. Cr. 8vo. 190 pp. 1894. Methuen, 2s. 6d.

TRUSTS OR INDUSTRIAL COMBINATIONS and Coalitions in the United States, by E. von Halle. Cr. 8vo. 350 pp. 1900. Macmillan, 5s.

SECTION 16.

DAMS, DOCKS, HARBOURS.

Dams.

COFFER-DAM PROCESS FOR PIERS, by C. E. Fowler (U.S.A.). 100 Illus. 1898. Chapman, 10s. 6d.

CURVED MASONRY DAMS, by W. B. Coventry. 8vo. Spon, 2s. paper.

DESIGN AND CONSTRUCTION OF Masonry Dams, by E. Wegmann (U.S.A.). 4to. 3rd ed. 70 Plates. Chapman, 21s.

HIGH MASONRY DAMS, by E. S. Gould (U.S.A.). 88 pp. Illus. Spon, 2s.

MASONRY DAMS FROM INCEPTION to Completion, by C. F. Courtney. Demy 8vo. 140 pp. 1897. Lockwood, 9s.

NILE RESERVOIR DAM AT ASSUAN and After, by Sir W. Willcocks. Imp. 8vo. 2nd ed. 48 pp. 13 Plates. 1903. Spon, 6s.

Dams, *continued.*

PRACTICAL METHOD FOR DETERMINING the Profile of a Masonry Dam, by W. B. Coventry. 8vo. Spon, 2s. 6d. paper.

STRESSES ON MASONRY DAMS (Oblique Sections), by W. B. Coventry. 8vo. Spon, 2s.

Docks, Harbours, Lighthouses.

DESIGN AND CONSTRUCTION OF Harbours, by T. Stevenson. Demy 8vo. 3rd ed. 24 Plates. Illus. 1886. A. & C. Black, 31s.

DOCK BOOK, CONTAINING DIMENSIONS of the Principal Wet and Dry Docks, Patent Slips, etc., of the World. 1900. J. D. Potter, 10s.

HARBOURS AND DOCKS: Their Physical Features, History, Construction and Maintenance, by L. F. Vernon-Harcourt. 8vo. 2 vols. 1902. Frowde, 25s.

NOTES ON DOCKS AND DOCK Construction, by C. Colson. Med. 8vo. 423 pp. 359 Illus. 1894. Longmans, 21s.

PORTS AND DOCKS: Their History, Working and National Importance, by D. Owen. Cr. 8vo. 180 pp. 1904. Methuen, 2s. 6d.

PRINCIPLES AND PRACTICE OF Harbour Construction, by W. Shield. Med. 8vo. 299 pp. 97 Illus. 1895. Longmans, 15s.

RECLAMATION OF LAND FROM Tidal Waters, by A. Beazeley. Large cr. 8vo. 314 pp. Illus. 1900. Lockwood, 10s. 6d.

REPORT ON INDIAN LIGHTHOUSE Construction and Illumination, by F. W. Ashpitel. 1895. B. Quaritch, 29s. 6d.

THEORY AND PRACTICE IN THE Design and Construction of Dock Walls, by J. R. Allen. Cr. 4to. Spon, 6s.

TREATISE ON THE PRINCIPLES OF Dock Engineering, by B. Cunningham. Royal 8vo. 578 pp. 1904. Griffin, 30s.

(See also **Civil Engineering**, sect. 21).

SECTION 17.

DOGS.

BREAKING AND TRAINING DOGS, by "Pathfinder" and H. Dalziel. Cr. 8vo. 2nd ed. 260 pp. Plates. Upcott Gill, 6s. 6d.

DOGS FOR HOT CLIMATES: Guide for Residents in Tropical Countries as to Suitable Breeds, by V. Shaw and M. H. Hayes. Cr. 8vo. 176 pp. Illus. 1895. Thacker, 6s.

DOGS: Their Management, by E. Mayhew. Cr. 8vo. 318 pp. 1901. Routledge, 5s.

KENNEL SECRETS: How to Breed, Exhibit and Manage Dogs, by J. F. Perry (U.S.A.). 4to. 362 pp. 169 Plates. 1901. Gay & Bird, 16s.

LAW RELATING TO DOGS, by F. Lupton. Royal 12mo. 1888. Stevens & Sons, 5s.

LAW RELATING TO DOGS, by E. Manson. Cr. 8vo. 1893. Clowes, 3s. 6d.

MANAGEMENT AND BREEDING OF Dogs in India, by "Kader". Cr. 8vo. 175 pp. 1900. Thacker, 4s. 6d.

MANAGEMENT AND DISEASES OF the Dog, by J. W. Hill. Demy 8vo. 5th ed. 540 pp. Illus. 1900. Sonnenschein, 10s. 6d.

MODERN DOGS OF GREAT BRITAIN and Ireland, by R. B. Lee. Sporting Dogs. 2 vols. Demy 8vo. 1897. 21s. Non-Sporting Dogs. 10s. 6d. Terriers. 10s. 6d. Horace Cox.

OUR FRIEND THE DOG, by Gordon Stables, M.D. Demy 8vo. 7th ed. 60 Plates. 1901. Dean, 10s. 6d.

THE DOG: Its Varieties and Management in Health, by "Stonehenge"; Diseases, by J. Armatage. Cr. 8vo. 16 Plates. Warne, 2s. 6d.

TOY DOGS AND SMALL DOGS, ed. by S. Robinson. 2 vols. Kennel Pub. Co., 21s.

(**Veterinary Books.** See section 69.)

SECTION 18.

DOMESTIC ECONOMY, COOKERY, DRESSMAKING.

Cookery.

ECONOMICS OF MODERN COOKERY, by M. M. Mallock. Globe 8vo. 2nd ed. 1900. Macmillan, 3s. 6d.

ENCYCLOPÆDIA OF PRACTICAL Cookery, ed. by T. F. Garrett. Demy 4to. 2 vols. Vol. I. A—M. 1006 pp. 1242 Illus. Plates. Vol. II. 888 pp. 1088 Illus. Plates. Upcott Gill, 63s.

FIRST COURSE OF LESSONS IN Cookery, for Elementary Schools, by J. Loveday. 32 pp. Allman, 2d. paper.

HANDBOOK ON PLAIN COOKERY, for Classes, by H. Davies. Demy 8vo. 7th ed. 1900. McCorquodale, 1s. boards.

HOUSEHOLD COOKERY AND LAUNDRY Work, by Mrs. Black. Fcp. 8vo. 144 pp. Collins, Sons & Co., 1s.

INDIAN COOKERY BOOK. Cr. 8vo. 123 pp. 1901. Thacker, 3rs.

MIDDLE CLASS COOKERY BOOK, Compiled for the Manchester School of Cookery. Pott 8vo. 211 pp. 1900. Macmillan, 1s. 6d.

NEW CENTURY COOKERY BOOK, by C. H. Senn. Med. 8vo. 700 pp. 4000 Recipes. 1901. Spottiswoode & Co., 12s. 6d.

OFFICIAL HANDBOOK OF THE National Training School for Cookery, Lessons on Cookery forming the Course of Instruction. Large cr. 8vo. 476 pp. Chapman, 3s. 6d.

PRACTICAL COOKING AND SEWING, by J. M. Hill. Cr. 8vo. 750 pp. Illus. 1903. Heinemann, 10s.

PRACTICAL EGG COOKERY. Cr. 8vo. Newton & Eskell, 1s. boards.

ST. JAMES' COOKERY BOOK (French Recipes), by L. Rochfort. Cr. 8vo. Chapman, 3s. 6d.

SCHOOL COOKERY, by J. R. Ferguson. Cr. 8vo. 32 pp. Chambers, 3d. limp.

SCHOOL COOKERY BOOK, by C. E. Guthrie Wright. Pott 8vo. 158 pp. 1893. Macmillan, 1s.

SIMPLE LESSONS IN COOKERY, for the Use of Teachers of Elementary and Technical Classes, by M. Harrison. Globe 8vo. 98 pp. 1898. Macmillan, 1s. 6d.

SOUP AND SAUCE BOOK, by E. Douglas. 12mo. 154 pp. 1903. Richards, 2s.

WALDORF COOK BOOK, by O. Tschirky (U.S.A.). Super Royal 8vo. 930 pp. Gay & Bird, 12s.

(**Foods.** See section 24.)

Domestic Economy.

BAYLIS' LAW OF DOMESTIC SERVANTS: Their Rights, Duties and Relations. Cr. 8vo. 5th ed. 80 pp. 1896. Low, 1s. limp.

BOOK OF THE HOME: Guide to Household Management, by H. C. Davidson. Royal 8vo. 8 vols. Gresham Pub. Co., 40s.

CLASS LESSONS IN DOMESTIC Economy, by E. R. Lush. Cr. 8vo. 232 pp. 1901. Nelson, 2s. 6d.

COUNTRY HOUSE: Useful Information and Recipes for Householders, ed. by I. E. B. C. Large cr. 8vo. 3rd ed. 228 pp. Illus. 1883. Horace Cox, 5s.

DOMESTIC ECONOMY, for Schools, by A. Cooke. 16mo. 128 pp. Allman, 1s.

DOMESTIC ECONOMY, by H. R. Wakefield. Cr. 8vo. 152 pp. 1900. Chambers, 1s.

DOMESTIC ECONOMY, for Scholarship and Certificate Students, by E. R. Lush. Cr. 8vo. 260 pp. 1901. Macmillan, 2s. 6d.

DOMESTIC ECONOMY, for Teachers, revised by J. C. Horobin. 463 pp. 166 Illus. 1899. Nelson, 2s. 6d.

DOMESTIC ECONOMY IN THEORY and Practice, by Mrs. Bidder and F. Baddeley. Cr. 8vo. 358 pp. 1901. C. J. Clay, 4s. 6d.

DOMESTIC SCIENCE, for Teachers, by T. Cartwright. Cr. 8vo. 211 pp. 22 Illus. 1900. Nelson, 2s.

HOME AND ITS DUTIES: Manual of Domestic Economy for Schools, by J. W. Laurie. Pott 8vo. 130 pp. T. Laurie, 1s.

HOUSEHOLD ECONOMICS, by Helen Campbell (U.S.A.). Cr. 8vo. Putnam's, 6s.

Domestic Economy, *continued.*

HOW TO KEEP HOUSE, by Mrs. C. S. Peel. Cr. 8vo. 1903. Constable, 3s. 6d.

NOTES ON THE LAW OF MASTER and Servant, by J. Paterson, M.A. Demy 8vo. 250 pp. 1885. Butterworth, 5s.

SPON'S HOUSEHOLD MANUAL: Domestic Receipts and Guide for Home Management. Demy 8vo. 1043 pp. 250 Illus. Spon, 7s. 6d.

(**Hygiene.** See section 34.)

Dressmaking, Needlework.

DRESS-CUTTING, DRAFTING, French Pattern Modelling, by M. P. Browne. 8vo. 124 pp. Illus. 1903. Constable, 2s.

DRESSMAKING: Technical Manual for Teachers, by Mrs. H. Grenfell. Pott 8vo. 83 pp. 10 Diagrams. 1892. Macmillan, 1s.

ELEMENTS OF DRESSMAKING, for Amateur and Professional, for Students Preparing for City and Guilds Examinations, by J. E. Davis. Cr. 8vo. 202 pp. Illus. 1902. Cassell, 2s.

HOW TO MAKE A DRESS, by J. A. E. Wood. Cr. 8vo. 2nd ed. 90 pp. 45 Illus. 1900. Methuen, 1s. 6d.

NEEDLEWORK AND KNITTING Drills for Infants, with Music in Both Notations, by Alice Marrow. Cr. 8vo. 128 pp. Illus. 1900. Nelson, 1s.

NEEDLEWORK FOR STUDENT Teachers, by A. K. Smith. Demy 8vo. 5th ed. 212 pp. 1899. City of London Book Depôt, 3s. 6d.

PLAIN NEEDLEWORK AND KNITTING, for Elementary Schools, by H. K. Brietzche and E. F. Rooper. Cr. 8vo. 168 pp. Illus. 1885. Sonnenschein, 3s. 6d.

PRACTICAL DRESSMAKING, by L. E. Smith. Fcp. 8vo. 65 pp. 13 Illus. Bemrose, 6d. limp.

PRACTICAL DRESSMAKING, for Students and Technical Classes, by Mrs. J. Broughton. 8vo. 190 pp. 63 Illus. 1897. Macmillan, 2s. 6d.

PRACTICAL METHOD OF DRESS-CUTTING, *for Adults.* Post 8vo. 2nd ed. 100 pp. 16 Illus. 1899. Sonnenschein, 1s.

PRACTICAL SCHOOL NEEDLEWORK, for Teachers, by Miss J. W. Warren, 114 pp. Diagrams. 1894. Nelson, 2s. 6d.

PRACTICAL WORK OF DRESSMAKING and Tailoring, by M. P. Browne. Cr. 8vo. 206 pp. Illus. 1902. H. Cox, 2s. 6d.

SCHOOL NEEDLEWORK (Teachers' ed.), by O. C. Hapgood (U.S.A.). 12mo. 244 pp. Illus. 1893. Ginn, 3s. 6d.

SCIENTIFIC SEWING AND GARMENT Cutting, by A. V. H. Wakeman and L. M. Heller (U.S.A.). Small 4to. 156 pp. Gay & Bird, 3s.

TEACHING OF CUTTING OUT: Course of Instruction for Pupil Teachers, by H. D. Fuechsel. Cr. 8vo. 50 pp. 1901. Simpkin, 2s. 6d.

TEXT-BOOK OF NEEDLEWORK, Knitting and Cutting Out, with Methods of Teaching, by E. Rosevear. Cr. 8vo. 4th ed. 514 pp. Illus. and diagrams. 1901. Macmillan, 6s.

Embroidery, Lace, Fancy Work.

ART IN NEEDLEWORK: a Book about Embroidery, by L. F. Day and Mary Buckle. Cr. 8vo. 2nd ed. 262 pp. 28 Illus. 75 Plates. 1901. Batsford, 5s.

EMBROIDER'S BOOK OF DESIGN, by F. Delamotte. Royal 8vo. 1881. Lockwood, 1s. 6d.

EMBROIDERY AND LACE: Their Manufacture and History from Remotest Antiquity to Present Day; trans. from E. Lefébure. Cr. 8vo. 326 pp. 150 Illus. 1899. Grevel, 7s. 6d.

EMBROIDERY, or the Craft of the Needle, by W. G. P. Townsend. Cr. 8vo. 116 pp. 70 Illus. 1899. Truslove, 3s. 6d.

GUIDE TO FANCY WORK. 8vo. 166 pp. Illus. 1901. Weldon, 1s.

HISTORY OF LACE, by Mrs. Palliser. Royal 8vo. 520 pp. 133 Illus. 108 Plates. 1901. Low, 42s.

LACE-MAKING IN THE MIDLANDS, Past and Present, by C. C. Channer and M. E. Roberts. Cr. 8vo. 80 pp. 16 Illus. 1900. Methuen, 2s. 6d.

POINT AND PILLOW LACE: Short Account of Various Kinds, Ancient and Modern, by A. M. S. 4to. 218 pp. 1899. Murray, 10s. 6d.

Laundry.

ART OF LAUNDRY WORK, for Homes and Schools, by F. B. Jack. Cr. 8vo. 130 pp. 1902. Jack, 2s.

BOOK-KEEPING FOR LAUNDRIES, by W. H. Smith, revised by E. F. Jones. Royal 8vo. 1902. Simpkin, 2s. 6d.

HINTS ON LAUNDRY WORK, for Elementary Schools, by Mary Rushton. 16mo. 30 pp. Allman, 2d.

HOME WASHING, by L. E. Smith. Fcp. 8vo. 2nd ed. 124 pp. 1896. Bemrose, 1s.

LAUNDERER: Management and Operation of Steam Laundry, by D. H. Benjamin. 8vo. 1901. Lockwood, 12s.

LAUNDRY MANAGEMENT. Cr. 8vo. 2nd ed. 187 pp. 28 Illus. 1893. Lockwood, 2s.

LAUNDRY RECEIPTS AND EXPENDITURE, by W. H. Smith. Obl. 4to. 1903. Simpkin, 10s. 6d.

LAUNDRY WORK, for Classes, by A. Daniel. Demy 8vo. 72 pp. 1900. McCorquodale, 1s. boards.

LAW RELATING TO LAUNDRIES, as Amended by Factory and Workshop Act, by W. Bowstead. Cr. 8vo. 1902. Sweet & Maxwell, 2s. 6d.

Millinery, Straws.

BRAIDED STRAWS, by E. E. Foulke (U.S.A.). Small 4to. 142 pp. Gay & Bird, 2s.

MILLINERY, Theoretical and Practical, by C. Hill. Cr. 8vo. 128 pp. 53 Illus. 1900. Methuen, 2s.

PRACTICAL MILLINERY, by Mrs. Ortner. Cr. 8vo. 47 Illus. Whittaker, 2s. 6d.

Tailoring.

TAILORING: How to Make and Mend Trousers, Vests, Coats, ed. by P. N. Hasluck. Post 8vo. 160 pp. 184 Illus. 1901. Cassell, 1s.

SECTION 19.

ELECTRICITY.

Alternating Currents.

ALTERNATING AND INTERRUPTED Electric Currents, by G. Forbes. Cr. 8vo. 98 pp. 36 Illus. 1895. Biggs, 2s. 6d.

ALTERNATING-CURRENT CIRCUIT: Introductory Book for Engineers and Students, by W. P. Maycock. Sq. cr. 8vo. 110 pp. 51 Illus. 1897. Whittaker, 2s. 6d.

ALTERNATING-CURRENT WIRING and Distribution, by W. L. Emmett. 2nd ed. 98 pp. 33 Illus. *Electrical World*, N.Y., $1.

ALTERNATING CURRENTS AND ALTERNATING-CURRENT Machinery, by D. C. Jackson and J. P. Jackson (U.S.A.). Cr. 8vo. Macmillan, 14s.

ALTERNATING CURRENTS OF ELECTRICITY, by T. H. Blakesley, M.A. Cr. 8vo. 4th ed. 172 pp. 1899. Whittaker, 5s.

ALTERNATING CURRENTS OF ELECTRICITY and the Theory of Transformers, by A. Still. Cr. 8vo. 184 pp. 60 Illus. 1898. Whittaker, 5s.

ALTERNATE-CURRENT TRANSFORMER in Theory and Practice, by J. A. Fleming. New ed. Vol. I. 600 pp. 213 Illus. 12s. 6d. Electromagnetic Induction, Simple Periodic Currents. Mutual and Self-Induction. Vol. II. 600 pp. 300 Illus. 12s. 6d. Historical Development. Distribution of Electric Energy. Alternate-current Electric Stations. *Electrician*.

ALTERNATE-CURRENT TRANSFORMER Design, by R. W. Weekes. Cr. 8vo. Biggs, 2s.

ALTERNATING ELECTRIC CURRENTS, by E. J. Houston and A. E. Kennelly. 3rd ed. 225 pp. 77 Illus. 1902. *Electrical World*, N.Y., $1.

ELEMENTARY TREATISE ON ALTERNATING Currents, by W. G. Rhodes. 8vo. 224 pp. 83 Illus. 1902. Longmans, 7s. 6d.

ELEMENTS OF ALTERNATING CURRENTS, by W. S. Franklin and R. B. Williamson (U.S.A.). 8vo. 2nd ed. 349 pp. 250 Illus. 1903. Macmillan, 10s.

Alternating Currents, *continued.*

EXPERIMENTS WITH ALTERNATING Currents, of High Potential and High Frequency, by Nikola Tesla. Cr. 8vo. 146 pp. 35 Illus. *Electrical World*, N.Y., $1.

PRINCIPLES OF ALTERNATE-CURRENT Working, by A. Hay. 119 Illus. Biggs, 5s.

PRINCIPLES OF THE TRANSFORMER, by F. Bedell (U.S.A.). 8vo. Macmillan, 13s.

POLYPHASED ALTERNATING CURRENTS, by E. Hospitalier. Demy 8vo. 84 pp. *Electrical Review*, 3s. 6d.

POLYPHASE ELECTRIC CURRENTS and Alternate-current Motors, by S. P. Thompson, B.A., D.Sc. Demy 8vo. 2nd ed. 508 pp. 357 Illus. 8 Plates. 1900. Spon, 21s.

STANDARD POLYPHASE APPARATUS and Systems, by M. A. Oudin (U.S.A.). Cr. 8vo. 3rd ed. 289 pp. 169 Illus. 1902. Sampson Low, 12s. 6d.

THEORY AND CALCULATION OF Alternating-current Phenomena, by C. P. Steinmetz (U.S.A.). Med. 8vo. 3rd ed. 525 pp. 184 Illus. 1900. Whittaker, 20s.

TRANSFORMERS FOR SINGLE AND Multiphase Currents, by G. Kapp. Cr. 8vo. 242 pp. 133 Illus. 1896. Whittaker, 6s.

Armature Windings.

ARMATURE WINDINGS OF DIRECT-current Dynamos, from German, by E. Arnold. Royal 8vo. 130 pp. 146 Illus. 1903. Van Nostrand, N.Y., $2.

ARMATURE WINDINGS OF ELECTRIC Machines, by H. F. Parshall and H. M. Hobart. 4to. 165 pp. 140 Plates. 65 Tables. 1895. Van Nostrand, N.Y., $7.50.

DRUM ARMATURES AND COMMUTATORS, Theory and Practice, by F. M. Weymouth. Illus. *Electrician*, 7s. 6d.

Batteries.

GALVANIC BATTERIES: Their Theory, Construction and Use, by S. R. Bottone. Cr. 8vo. 392 pp. *144 Illus.* 1902. Whittaker, 5s.

PORTATIVE ELECTRICITY, by J. T. Niblett. Illus. Biggs, 2s. 6d.

PRIMARY BATTERIES: Their Theory, Construction and Use, by W. R. Cooper, M.A., B.Sc. 8vo. 317 pp. 131 Illus. 1901. *Electrician*, 10s. 6d.

SECONDARY BATTERIES: Their Theory, Construction and Use, by E. J. Wade. Demy 8vo. 502 pp. 1902. *Electrician*, 10s. 6d.

SECONDARY BATTERIES, by an Engineer. 8vo. 92 pp. 1903. Alabaster, 4s.

STORAGE OF ELECTRICAL ENERGY, from the French of G. Planté. 8vo. 268 pp. 89 Illus. Whittaker, 12s.

STORAGE BATTERY ENGINEERING, by L. L. Yndon. 8vo. 2nd ed. 383 pp. 1903. McGraw Pub. Co., N.Y., $3.

VOLTAIC ACCUMULATOR: Elementary Treatise, trans. from E. Reynier. Large cr. 8vo. 202 pp. 62 Illus. 1889. Spon, 9s.

VOLTAIC CELL: ITS CAPACITY and Construction, by P. Benjamin (U.S.A.). Demy 8vo. 562 pp. 200 Illus. 1893. Chapman, 12s. 6d.

(**Calculations.** See Measurements.)

Central Stations.

CENTRAL ELECTRICAL STATIONS: Their Design, Organisation and Management, by C. H. Wordingham. Large 8vo. 496 pp. 136 Illus. 1901. Griffin, 24s.

CENTRAL STATION ELECTRICITY Supply, by A. Gay and C. H. Yeaman. Cr. 8vo. 468 pp. 200 Illus. 1899. Whittaker, 10s. 6d.

CENTRAL STATION MANAGEMENT and Finance, by H. A. Foster (U.S.A.). 8vo. Spon, 7s. 6d.

ELECTRIC LIGHT AND POWER, giving Result of Practical Experience in Central Station Work, by A. F. Guy. 8vo. Illus. Van Nostrand, N.Y., $2.50.

Dictionaries.

HANDY ELECTRICAL DICTIONARY, by W. L. Weber. 16mo. F. J. Drake & Co., Chicago, 25c.

POCKET DICTIONARY OF ELECTRICAL Words, Terms and Phrases, by E. J. Houston, Ph.D. 32mo. 945 pp. 1898. Sonnenschein, 10s.

PRACTICAL DICTIONARY OF ELECTRICAL Engineering and Chemistry, by P. Heyne. Cr. 8vo. 3 vols. Vol. I. German-English-Spanish. 196 pp. 5s. Vol. II. English-Spanish-German. 209 pp. 5s. Vol. III. Spanish-German-English. 218 pp. 5s. Grevel.

STANDARD ELECTRICAL DICTIONARY, by T. O. Sloane, Ph.D. Cr. 8vo. 3rd ed. 682 pp. 3000 Definitions. 1902. Lockwood, 7s. 6d.

Directories.

DIRECTORY AND STATISTICS OF Electric Lighting and Electric Traction, with List of Chairmen, Engineers and Managers. Cr. 8vo. Hazell, 6s.

ELECTRICAL TRADES' DIRECTORY and Handbook. Royal 8vo. 1250 pp. Annual. *Electrician*, 12s. 6d.

MANUAL OF ELECTRICAL UNDERTAKINGS and Directory of Officials. Demy 8vo. 1250 pp. Annual. Mowbray House, W.C., 15s.

UNIVERSAL ELECTRICAL DIRECTORY. Royal 8vo. 1328 pp. Annual. *Electrical Review*, 6s.

Dynamos.

CONTINUOUS CURRENT DYNAMOS and Motors and their Control, by W. R. Kelsey. Cr. 8vo. 440 pp. 225 Illus. 1903. Technical Pub. Co., Manchester, 5s.

CONTINUOUS CURRENT DYNAMOS, in Theory and Practice, by J. Fisher-Hinnen. Demy 8vo. 417 pp. 276 Illus. 3 Plates. 1899. Biggs, 10s. 6d.

CONTINUOUS CURRENT MACHINERY, by S. P. Thompson (Vol. I. of Dynamo Electric Machinery). 7th ed. 984 pp. 573 Illus. 30 plates. 1904. Spon, 30s.

DESIGNS OF DYNAMOS, by S. P. Thompson, D.Sc. 8vo. 250 pp. 12 Plates. 92 Illus. 1903. Spon, 12s.

DYNAMO AND MOTOR BUILDING, for Amateurs, by Lieut. C. D. Parkhurst. 163 pp. 73 Illus. *Electrical World*, N.Y., $1.

DYNAMO ATTENDANTS AND THEIR Duties, by A. H. Gibbings. Cr. 8vo. 3rd ed. 58 pp. 14 Illus. 1897. *Electricity*, 1s. limp.

DYNAMO CONSTRUCTION: Electrical and Mechanical, trans. from German of G. Kapp. Imp. 4to. 54 Illus. 25 Sheets of Working Drawings. Biggs, 21s.

DYNAMO CONSTRUCTION, by J. W. Urquhart. Cr. 8vo. 2nd ed. 350 pp. 114 Illus. Lockwood, 7s. 6d.

DYNAMO ELECTRIC MACHINERY: Its Construction, Design and Operation, by S. Sheldon and S. Mason. Cr. 8vo. 2 vols. Vol. I. Direct Current Machines. 288 pp. 3rd ed. 1902. 12s. Vol. II. Alternating Current Machines. 184 Illus. 266 pp. 1902. Lockwood, 12s.

DYNAMO ELECTRICITY: Its Generation, Transmission, Storage and Measurement, by G. B. Prescott (U.S.A.). 8vo. 545 Illus. Spon, 21s.

DYNAMO: HOW MADE AND HOW Used, by S. R. Bottone. Cr. 8vo. 11th ed. 140 pp. 1899. Whittaker, 2s. 6d.

DYNAMO: ITS THEORY, DESIGN and Manufacture, by C. C. Hawkins, M.A., and F. Wallis. Cr. 8vo. 3rd ed. 940 pp. 413 Illus. 1903. Whittaker, 15s.

DYNAMOS AND ELECTRIC MOTORS: How to Make and Run Them. Cr. 8vo. 160 pp. 142 Illus. 1900. Cassell, 1s.

ELECTRIC GENERATORS, by H. F. Parshall and H. M. Hobart. Demy 4to. 400 pp. 500 Illus. *Engineering*, 31s. 6d.

ELECTRODYNAMIC MACHINERY, by E. J. Houston, Ph.D., and A. E. Kennelly, Sc.D. 331 pp. 232 Illus. *Electrical World*, N.Y., $2.50.

ELEMENTS OF DYNAMIC ELECTRICITY and Magnetism, by P. Atkinson. 12mo. 3rd ed. 417 pp. Van Nostrand, N.Y., $2.

HOW TO BUILD DYNAMO-ELECTRIC Machinery, by E. Trevert. 8vo. Illus. Van Nostrand, N.Y., $2.50.

HOW TO MAKE A DYNAMO, for Amateurs, by A. Crofts. Cr. 8vo. 144 pp. 1900. Lockwood, 2s.

HOW TO MANAGE A DYNAMO, for Engineers, by S. R. Bottone. Pott 8vo. 3rd ed. 60 pp. 1901. Whittaker, 1s.

Dynamos, *continued.*

LATEST DYNAMO-ELECTRIC MACHINES, by S. P. Thompson, D.Sc., B.A. Demy 8vo. Illus. Spon, 4s. 6d.

MAGNETO-ELECTRIC AND DYNAMO-electric Machines, by Dr. H. Schellen, trans. from German. Demy 8vo. 2nd ed. 518 pp. 353 Illus. Van Nostrand, N.Y., $5.

MANAGEMENT OF DYNAMOS, by G. W. Lummis-Paterson. Cr. 8vo. 2nd ed. Illus. Lockwood, 4s. 6d.

NEW DYNAMO TENDERS' HANDBOOK, by F. B. Badt (U.S.A.). 18mo. 140 Illus. Spon, 4s. 6d.

NOTES ON DESIGN OF SMALL DYNAMO, by G. Halliday. 8vo. 2nd ed. Spon, 2s. 6d.

ORIGINAL PAPERS ON DYNAMO Machinery and Allied Subjects, by Dr. J. Hopkinson. 249 pp. 98 Illus. *Electrical World*, N.Y., $1.

PRACTICAL APPLICATION OF DYNAMO-electric Machinery, for Motormen, Linesmen, etc., by McFadden and Ray. Fcp. 8vo. Laird & Lee, Chicago, $1.

PRACTICAL CALCULATIONS OF DYNAMO-electric Machines, by A. E. Wiener (U.S.A.). Demy 8vo. 2nd ed. 764 pp. 1902. Whittaker, 15s.

PRACTICAL MANAGEMENT OF DYNAMOS and Motors, by F. B. Crocker and S. S. Wheeler (U.S.A.). Cr. 8vo. 5th ed. Spon, 4s. 6d.

RECENT TYPES OF DYNAMO-ELECTRIC Machinery, by E. J. Houston and A. E. Kennelly, Sc.D. (U.S.A.). 612 pp. 435 Ill. Sonnenschein, 24s.

SHOP AND ROAD TESTING OF DYNAMOS and Motors, by E. C. Parham, B.Sc., and J. C. Shedd. Cr. 4to. 2nd ed. 626 pp. 211 Illus. 1901. *Electrical World*, N.Y., $2.50.

TEXT-BOOK ON ELECTRO-MAGNETISM and Construction of Dynamos, by D. C. Jackson (U.S.A.). Cr. 8vo. Macmillan, 9s.

THEORETICAL ELEMENTS OF ELECTRO-dynamic Machinery, by A. E. Kennelly (U.S.A.). 8vo. Spon, 4s. 6d.

Electricity—General.

AMATEUR ELECTRICIAN'S WORKSHOP, by S. R. Bottone. Cr. 8vo. 86 pp. Illus. 1902. G. Pitman, 1s.

ELECTRICAL CATECHISM, for Beginners, by G. D. Shephardson. 8vo. 450 pp. 325 Illus. 1901. *Electrical World*, N.Y., $2.

ELECTRICAL DESIGNS. Descriptions of Electrical Apparatus of Simple Construction. 262 pp. 289 Illus. *Electrical World*, N.Y., $2.

ELECTRICAL EXPERIMENTS, by G. E. Bonney. Sq. cr. 8vo. 2nd ed. 260 pp. 144 Illus. 1897. Whittaker, 2s. 6d.

"ELECTRICIAN" PRIMERS. Illus. Vol. I. Theory: Current, Magnets, Units, etc. Vol. II. Practice: Telegraph, Telephone, Motors, Lighting, Traction. *Electrician*, 2s. 6d. each.

ELECTRICITY, for Students, by Dr. Ferguson, revised by J. Blyth, M.A. 408 pp. Chambers, 3s. 6d.

ELECTRICITY IN OUR HOMES AND Workshops, by S. F. Walker. Cr. 8vo. 3rd ed. 360 pp. 143 Illus. 1895. Whittaker, 6s.

ELECTRICITY IN THE SERVICE OF Man, by R. M. Walmsley, D.Sc. Demy 8vo. 976 pp. 950 Illus. 1900. Cassell, 7s. 6d.

ELECTRICITY IN THEORY AND Practice, Elements of Electrical Engineering, by B. A. Fiske. 8vo. 8th ed. Van Nostrand, N.Y., $2.50.

ELECTRICITY IN TOWN AND COUNTRY Houses, by P. E. Scrutton. Cr. 8vo. 3rd ed. 148 pp. 78 Illus. 1901. Constable.

ELECTRICITY: Its Theory, Sources and Applications, by J. T. Sprague. Cr. 8vo. 3rd ed. Spon, 15s.

ELECTRICITY SIMPLIFIED, by A. T. Stewart. 164 pp. Chambers, 1s. 6d.

HOW TO BECOME A SUCCESSFUL Electrician, by Sloane. 189 pp. Illus. Henley & Co., N.Y., $1.

INDUSTRIAL ELECTRICITY: Introductory Volume, by A. G. Elliott, B.Sc. Cr. 8vo. 160 pp. 65 Illus. 1898. Whittaker, 2s. 6d.

LESSONS IN PRACTICAL ELECTRICITY, by C. W. Swoope. 8vo. Illus. 1901. Van Nostrand, N.Y., $2.

PRACTICAL ELECTRICITY, for First Year Students, by Professor W. E. Ayrton. 247 Illus. 1902. Cassell, 7s. 6d.

PRACTICAL ELECTRICITY, by Cleveland Armature Works (U.S.A.).

12mo. 449 pp. 87 Illus. 1901. Gay & Bird, 7s. 6d.

PRACTICAL ELECTRICITY: Laboratory Course for Schools, by J. H. Belcher. Cr. 8vo. 188 pp. 1902. Allman, 2s. 6d.

PRACTICAL ELECTRICITY, with Questions and Dictionary, by J. L. Mauldin and A. A. Pifer (U.S.A.). Cr. 8vo. 3rd ed. 456 pp. 1902. Gay & Bird, 7s. 6d.

PRACTICAL NOTES FOR ELECTRICAL Students, by A. E. Kennelly and H. D. Wilkinson. 320 pp. 155 Illus. *Electrician*, 6s. 6d.

PROBLEMS IN ELECTRICITY, by R. Weber; trans. from French. Cr. 8vo. 1902. Spon, 7s. 6d.

STUDENTS' TEXT-BOOK OF ELECTRICITY, by H. M. Noad. Cr. 8vo. 615 pp. 471 Illus. 1895. Lockwood, 9s.

Electricity and Magnetism.

ADVANCED MAGNETISM AND ELECTRICITY, by R. W. Stewart, D.Sc.; Practical Applications by R. H. Jude. Cr. 8vo. 4th ed. 380 pp. Illus. 1901. Clive, 3s. 6d.

ADVANCED TEXT-BOOK ON ELECTRICITY and Magnetism, by A. Jamieson. Large cr. 8vo. 3rd ed. Griffin, 7s. 6d.

DYNAMIC ELECTRICITY AND MAGNETISM, by P. Atkinson, Ph.D. Cr. 8vo. 417 pp. 120 Illus. Lockwood, 10s. 6d.

ELECTRIC AND MAGNETIC CIRCUITS, by E. H. Crapper. Demy 8vo. 392 pp. 1903. E. Arnold, 10s. 6d.

ELECTRICITY AND MAGNETISM, Theoretical and Practical, by C. E. Ashford. Cr. 8vo. 316 pp. 1903. E. Arnold, 3s. 6d.

ELECTRICITY AND MAGNETISM, by G. C. Foster and A. W. Porter. Demy 8vo. 568 pp. 374 Illus. 1903. Longmans, 10s. 6d.

ELECTRICITY, ELECTROMETER, Electrolysis and Magnetism, by G. Chrystal, M.A., and W. N. Shaw, M.A. 4to. 276 pp. 20 Illus. 1894. A. & C. Black, 5s. boards.

ELECTRICITY, MAGNETISM, AND Electro-telegraphy. Demy 8vo. 377 pp. 152 Illus. Van Nostrand, N.Y., $2.50.

ELECTRO-MAGNETIC THEORY, by O. Heaviside. Vol. I. 2nd ed. 466 pp. 12s. 6d. Vol. II. 568 pp. 12s. 6d. *Electrician*.

ELEMENTS OF ELECTRO-MAGNETIC THEORY, by S. J. Barnett. 8vo. 1904. Macmillan, 12s. 6d.

FIRST BOOK OF ELECTRICITY AND Magnetism, by W. P. Maycock. Sq. cr. 8vo. 3rd ed. 250 pp. 107 Illus. 1904. Whittaker, 2s. 6d.

FIRST PRINCIPLES OF ELECTRICITY and Magnetism, by C. H. W. Biggs. 350 Diagrams. Biggs, 3s. 6d.

LESSONS IN ELECTRICITY AND Magnetism, trans. from Eric Gerard by L. Duncan, Ph.D. (U.S.A.). Med. 8vo. 392 pp. 112 Illus. 1897. Whittaker, 12s. 6d.

MAGNETIC AND ELECTRIC CURRENTS, by J. A. Fleming. Cr. 8vo. 2nd ed. 424 pp. 1902. Spon, 5s.

MAGNETIC INDUCTION IN IRON and other Metals, by J. A. Ewing. 3rd ed. 382 pp. 173 Illus. 1900. *Electrician*, 10s. 6d.

MAGNETISM, by C. J. Houston and A. E. Kennelly. 294 pp. 94 Illus. *Electrical World*, N.Y., $1.

MAGNETISM AND ELECTRICITY, for Students, by H. C. Tarn, M.C.P., F.S.Sc. Post 8vo. 181 Illus. 1893. Chambers, 2s.

MAGNETISM AND ELECTRICITY: Elementary Manual, by A. Jamieson. Cr. 8vo. 5th ed. 297 pp. Illus. 1900. Griffin, 3s. 6d.

MAGNETISM AND ELECTRICITY, for Junior Students, by J. P. Yorke. Cr. 8vo. 264 pp. 145 Illus. 1899. E. Arnold. 3s. 6d.

MAGNETISM AND ELECTRICITY: Introductory Course, by J. R. Ashworth, M.Sc. Cr. 8vo. 2nd ed. 100 pp. 1899. Whittaker, 2s. 6d.

NOTES ON RECENT RESEARCHES IN Electricity and Magnetism, by J. J. Thomson. Royal 8vo. 578 pp. 144 Illus. 1893. Frowde, 18s. 6d.

PRACTICAL ELECTRICITY AND MAGNETISM, by J. Henderson, B.Sc. Cr. 8vo. 388 pp. 159 Illus. 1898. Longmans, 6s. 6d.

SUBJECT LIST OF WORKS ON ELECTRICITY, MAGNETISM, etc., in the Library of the Patent Office. 16mo. 1904. Patent Office, 6d.

Electricity and Magnetism, *cont.*

TEXT-BOOK ON ELECTRICITY AND Magnetism, for Use at the Royal Academy, by Captain W. P. Brett, 1899. Eyre & Spottiswoode, 9s.

TREATISE ON ELECTRICITY AND Magnetism, by J. C. Maxwell. 2 vols. 8vo. 3rd ed. 1892. Vol. I. 506 pp. 13 Plates. 40 Illus. Vol. II. 500 pp. 20 Plates. Frowde, 32s.

(**Magnets.** See below.)

Electric Bells.

ELECTRIC BELL CONSTRUCTION, by F. C. Allsop. Cr. 8vo. 2nd ed. 177 Illus. Spon, 3s. 6d.

ELECTRIC BELLS AND ALL ABOUT THEM, by S. R. Bottone. Cr. 8vo. 6th ed. Illus. 1901. Whittaker, 3s.

ELECTRIC BELLS: HOW TO MAKE and Fit. Cr. 8vo. 160 pp. 162 Illus. 1900. Cassell, 1s.

PRACTICAL ELECTRIC BELL FITTING, by F. C. Allsop. Cr. 8vo. 10th ed. 150 pp. 186 Illus. 1902. Spon, 3s. 6d.

(**Electric Cables.** See Telegraphy.)

Electrical Engineering.

AMATEUR ELECTRICIAN'S WORKSHOP, by S. R. Bottone. Book 2. Cr. 8vo. 84 pp. 40 Illus. 1903. G. Pitman, 1s. 6d.

CONDUCTORS FOR ELECTRICAL DISTRIBUTION: Their Materials and Manufacture, Calculations, etc., by F. A. C. Perrine. Royal 8vo. 296 pp. 1903. Van Nostrand, N.Y., $3.50.

DYNAMO, MOTOR AND SWITCHBOARD Circuits for Electrical Engineers, by W. R. Bowker. Royal 8vo. 132 pp. 1904. Lockwood, 6s.

ELECTRICAL ENGINEERING: Elementary Text-book, by E. Rosenberg; trans. by W. W. H. Gee. Demy 8vo. 282 pp. 263 Illus. 1903. Harper, 6s.

ELECTRICAL ENGINEERING LEAFLETS, by E. J. Houston and A. E. Kennelly, Sc.D. 3 vols. Vol. I. Elementary. 296 pp. 121 Illus. $1.50. Vol. II. Intermediate. 300 pp. 140 Illus. $1.50. Vol. III. Advanced. 296 pp. 121 Illus. $1.50. *Electrical World*, N.Y.

ELECTRICAL INSTALLATIONS OF Electric Light, Power, Traction and Machinery, by R. Kennedy. Royal 8vo. 3 vols. Vol. I. 224 pp. Illus. 1902. Vol. II. 200 pp. Illus. Vol. III. 262 pp. 208 Illus. 1903. Caxton Pub. Co., 9s. each.

ELEMENTS OF ELECTRICAL ENGINEERING, First Year's Course, by T. Sewell. Large cr. 8vo. 344 pp. 200 Illus. 1902. Lockwood, 7s. 6d.

HANDBOOK FOR ELECTRICIANS IN the Operation and Care of Electrical Machinery and Apparatus of the U.S. Coast Defences, by G. L. Anderson (U.S.A.). Royal 8vo. 214 Illus. 1902. Lockwood, 21s.

MODERN APPLICATIONS OF ELECTRICITY, trans. from E. Hospitalier. Demy 8vo. 2nd ed. 1883. Vol. I. Electric Generators and Lighting. 502 pp. 264 Illus. Vol. II. Telephone, Transmission of Energy. 400 pp. 162 Illus. Paul, 25s.

MODERN ELECTRIC PRACTICE, ed. by M. Maclean, M.A., D.Sc. 6 vols. Royal 8vo. I. Measurements, Generators, etc. 270 pp 234 Illus. 1904. II. Motors, Batteries, etc. 297 pp. 121 Illus. 1904. Gresham Pub. Co., 9s. each.

MUNICIPAL ELECTRICITY SUPPLY, for Municipal Engineers and Committees, by A. H. Gibbings. Post 4to. 300 pp. 1899. Whittaker, 10s. 6d.

QUESTIONS IN ELEMENTARY ELECTRICAL Engineering, with Solutions, and City and Guilds Papers, 1893-1900, compiled by C. J. Leaper. Cr. 8vo. 32 pp. 1900. Biggs, 3d.

THEORETICAL ELEMENTS OF ELECTRICAL Engineering, by C. P. Steinmetz. 8vo. 2nd ed. 320 pp. 148 Illus. 1902. *Electrical World*, N.Y., $2.50.

UP-TO-DATE DOMESTIC AND INDUSTRIAL Applications of Electricity, by Alpha. Cr. 8vo. 90 pp. 1900. *Electricity*, 1s.

(**Measurements, Motors, Testing, Pocket Books, Tables,** etc. See below.)

Electric Heating.

ELECTRIC HEATING, by E. J. Houston. 290 pp. 86 Illus. *Electrical World*, N.Y., $1.

Electric Lighting.

CARBON-MAKING FOR ALL ELECTRICAL Purposes, by F. Jehl. Illus. *Electrician*, 10s. 6d.

CHEMICAL TECHNOLOGY. Vol. IV. Electric Lighting, by A. G. Cooke. Photometry, by W. J. Dibden. Large 8vo. 373 pp. 181 Illus. 1903. Churchill, 20s.

DIGEST OF THE LAW OF ELECTRIC Lighting and Traction, by A. C. Curtis-Hayward. *Electrician*, 3s.

DOMESTIC ELECTRICAL LIGHTING, from a Consumer's Point of View, by E. C. de Segundo. Sm. 8vo. 115 pp. *Electrical Review*, 1s.

ECONOMIC VALUE OF ELECTRIC Light and Power, by A. R. Foote (U.S.A.). Cr. 8vo. Spon, 4s. 6d.

ELECTRICAL ENGINEERS' AND STUDENTS' Chart and Handbook of the Brush Arc Light System, by Reagan. 8vo. N. W. Henley & Co., N.Y., $1.

ELECTRICAL ENGINEERING, for Artisans and Students, by W. Slingo and A. Brooker. Cr. 8vo. New ed. 824 pp. 383 Illus. 1903. Longmans, 12s.

ELECTRIC ARC, by Mrs. H. Ayrton. 500 pp. 146 Illus. 1901. *Electrician*, 12s. 6d.

ELECTRIC ARC LIGHTING, by E. J. Houston and A. E. Kennelly. 12mo. 2nd ed. 383 pp. 155 Illus. 1902. *Electrical World*, N.Y., $1.

ELECTRIC ILLUMINATION, ed. by J. Dredge. Vol. I. 1882. Vol. II. Demy 4to. 900 pp. 1500 Illus. 1884. *Engineering*, 30s.

ELECTRIC INCANDESCENT LIGHTING, by E. J. Houston and A. E. Kennelly. 12mo. 2nd ed. 449 pp. 146 Illus. 1902. *Electrical World*, N.Y., $1.

ELECTRIC LAMPS AND ELECTRIC Lighting, by J. A. Fleming. New ed. 1900. *Electrician*, 6s.

ELECTRIC LIGHT ARITHMETIC, by R. E. Day. Pott 8vo. 88 pp. 1897. Macmillan, 2s.

ELECTRIC LIGHT FITTING, for Working Electrical Engineers, by J. W. Urquhart. Cr. 8vo. 3rd ed. 316 pp. 95 Illus. 1898. Lockwood, 5s.

ELECTRIC LIGHT INSTALLATIONS, by Sir D. Salomons. Cr. 8vo. 3 vols. Vol. I. Accumulators. 8th ed. 164 pp. 33 Illus. 1898. 5s. Vol. II. Apparatus. 8th ed. 305 Illus. 1901. 7s. 6d. Vol. III. Application. 240 pp. 32 Illus. 1896. 5s. Whittaker.

ELECTRIC LIGHT: ITS PRODUCTION and Use, by J. W. Urquhart. Cr. 8vo. 6th ed. 428 pp. 1898. Lockwood, 7s. 6d.

ELECTRIC LIGHTING, by F. B. Crocker (U.S.A.). Roy. 8vo. 2 vols. Vol. I. Generating Plant. 2nd ed. 444 pp. 152 Illus. 12s. 6d. Vol. II. Distributing System and Lamps. 505 pp. 391 Illus. 1901. 12s. 6d. Spon.

ELECTRIC LIGHTING ACT, 1882, by C. Higgins and E. W. W. Edwards. Demy 8vo. 1883. Clowes, 6s.

ELECTRIC LIGHTING AND POWER Distribution, for Students, for City and Guilds Examinations, by W. P. Maycock. Sq. cr. 8vo. 2 vols. Vol. I. Preliminary Grade. 231 Illus. 6th ed. 432 pp. 1904. 6s. Vol. II. Ordinary Grade. 706 pp. 407 Illus. 1903. 7s. 6d. Whittaker.

ELECTRIC LIGHTING FOR MARINE Engineers, by S. F. Walker. Cr. 8vo. 2nd ed. 300 pp. 103 Illus. Whittaker, 5s.

ELECTRIC LIGHTING SPECIFICATIONS, for Engineers and Architects, by E. A. Merrill, A.M. 8vo. 2nd ed. 213 pp. *Electrical World*, N.Y., $1.50.

ELECTRIC SHIP LIGHTING, by J. W. Urquhart. Cr. 8vo. 2nd ed. Lockwood, 7s. 6d.

ELEMENTS OF ELECTRIC LIGHTING, by P. Atkinson. Cr. 8vo. 10th ed. 278 pp. 104 Illus. 1902. Van Nostrand, N.Y., $1.50.

GUIDE TO ELECTRIC LIGHTING, for Amateurs, by S. R. Bottone. Cr. 8vo. 215 pp. Illus. 1900. Whittaker, 1s.

INCANDESCENT ELECTRIC LIGHTING, by L. H. Latimer, etc. (U.S.A.), 18mo. 140 pp. Spon, 2s. boards.

Electric Lighting, *continued.*

INCANDESCENT LAMP AND ITS Manufacture, by G. S. Ram. Illus. *Electrician*, 7s. 6d.

LAW OF ELECTRIC LIGHTING, by J. S. Will. Roy. 8vo. 2nd ed. 326 pp. 1900. Butterworth, 17s. 6d.

LOCALISATION OF FAULTS IN ELECTRIC Light Mains, by F. C. Raphael. 220 pp. 100 Illus. *Electrician*, 7s. 6d.

MECHANISM OF THE ELECTRIC ARC, by H. Ayrton. 4to. 36 pp. 1902. Dulau, 2s. 6d.

PHOTOGRAPHIC AND OPTICAL Electrical Lamps, by R. Kennedy. Demy 8vo. 60 pp. 59 Illus. 1895. *Electrical Review*, 2s. 6d.

PRACTICAL ELECTRIC LIGHT FITTING, by F. C. Allsop. Cr. 8vo. 4th ed. 280 pp. 224 Illus. 1900. Whittaker, 5s.

PRACTICAL TREATISE ON THE INCANDESCENT Lamp, by J. H. Randall (U.S.A.). 18mo. Illus. Spon, 2s. 6d.

TREATISE ON INDUSTRIAL PHOTOMETRY, with Special Reference to Electric Lighting, by A. Palaz. Roy. 8vo. 2nd ed. 322 pp. 92 Illus. Van Nostrand, N.Y., $4.

(**Wiring.** See p. 73.)

Electric Traction.

AMERICAN ELECTRIC STREET RAILWAYS: Their Construction and Equipment, by K. Hedges. Post 4to. 200 Illus. Spon, 12s. 6d.

ELECTRIC RAILWAYS AND TRAMWAYS: Their Construction and Operation, by P. Dawson. Demy 4to. 678 pp. Illus. 1897. *Engineering*, 42s.

ELECTRIC RAILWAY MOTORS: Construction, Operation and Maintenance, by N. W. Perry. Cr. 8vo. 238 pp. 60 Illus. *Electrical World*, N.Y., $1.

ELECTRIC STREET RAILWAYS, by E. J. Houston and A. E. Kennelly. 367 pp. 158 Illus. *Electrical World*, N.Y., $1.

ELECTRIC TRACTION, by J. H. Rider. Cr. 8vo. 453 pp. 194 Illus. 1903. Whittaker, 10s. 6d.

ELECTRICAL TRACTION, for Students and Engineers, by E. Wilson. Cr. 8vo. 253 pp. 81 Illus. 1897. E. Arnold, 5s.

ENGINEERING PRELIMINARIES, for an Interurban Electrical Railway, by E. Gonzenbach. 8vo. 1903. McGraw Pub. Co., N.Y., $1.

HOW TO BECOME A COMPETENT Motorman, by V. B. Livermore and J. Williams. Cr. 8vo. 232 pp. 45 Ill. 1903. Van Nostrand, N.Y., $1.

MODERN ELECTRIC RAILWAY Motors, by G. T. Hanchett, S.B. 200 pp. 157 Illus. 1900. Street Railway Pub. Co., N.Y., $2.

MOTORMAN'S GUIDE, by J. W. Gayetty. Laird & Lee, Chicago, 50c.

PRACTICAL CONSTRUCTION OF ELECTRIC Tramways, by W. R. Bowker. Demy 8vo. 120 pp. 93 Illus. 1903. Spon, 6s.

PRACTICAL ELECTRIC RAILWAY Handbook, by A. B. Herrick (U.S.A.). Cr. 8vo. 407 pp. 1901. Whittaker, 15s.

REFERENCE BOOK OF TABLES AND Formulæ for Electric Railway Engineers, by E. A. Merrill. 2nd ed. 128 pp. *Electrical World*, N.Y., $1.

STREET RAILWAY MOTORS, by H. Haupt. Cr. 8vo. 213 pp. Baird, Philadelphia, $1.75.

(**Transmission.** See below.
Railways. See section 57.)

Electricity in Mining.

ELECTRICAL PRACTICE IN COLLIERIES, by D. Burns. Cr. 8vo. 232 pp. 1903. Griffin, 6s.

ELECTRICITY AS APPLIED TO Mining, by A. Lupton, G. D. A. Parr, and H. Perkin. Med. 8vo. 288 pp. 170 Illus. 1903. Lockwood, 9s.

ELECTRICITY IN MINING, by H. Louis, M.A. Demy 8vo. 45 pp. Illus. 1901. *Mining Journal*, 3s.

(**Electro-Chemistry.** See section 13.)

Electroplating.

COMPLETE TREATISE ON THE Electro-depositions of Metals, trans. from German of Dr. G. Langbein. 4th ed. 538 pp. 150 Illus. 1902. Baird, Philadelphia, $4.

(See also p. 81.)

(**Electro-Smelting, Refining.** See section 41.)

Induction Coils.

CONSTRUCTION OF LARGE INDUCTION Coils, by A. T. Hare. Demy 8vo. 156 pp. 35 Illus. 1900. Methuen, 6s.

INDUCTION COILS, by G. E. Bouney. Cr. 8vo. 2nd ed. 248 pp. 135 Illus. 1902. Whittaker, 3s.

INDUCTION COILS AND COIL-MAKING, by F. C. Allsop. Cr. 8vo. 3rd ed. 184 pp. 125 Illus. 1899. Spon, 3s. 6d.

INDUCTION COIL IN PRACTICAL Work, including Röntgen X Rays, by L. Wright. Cr. 8vo. 172 pp. 71 Illus. 4 Plates. 1897. Macmillan, 4s. 6d.

RUHMKORFF INDUCTION COILS: Their Construction, Operation and Application, by H. T. Norrie (U.S.A.). Sq. 16mo. 2nd ed. 270 pp. 79 Illus. 1901. Spon, 4s. 6d.

(**Roentgen Rays**, see below.)

Magnets.

APPLIED MAGNETISM, by J. A. Kingdom. Demy 8vo. 292 pp. 75 Illus. *Electrical Review*, 7s. 6d.

ELEMENTS OF CONSTRUCTION FOR Electro-magnets, by Th. du Moncel, trans. from French. Cr. 8vo. Spon, 4s. 6d.

ELECTRO-MAGNET AND ELECTRO-magnetic Mechanism, by S. P. Thompson, D.Sc., B.A. Large cr. 8vo. 450 pp. 213 Illus. 1901. Spon.

Measurements.

ABSOLUTE MEASUREMENTS IN Electricity and Magnetism, for Students, by A. Gray. Fcp. 8vo. 2nd ed. Macmillan, 5s. 6d.

ARITHMETIC OF ELECTRICAL MEASUREMENTS, Hobbs. Cr. 8vo. 9th ed. 111 pp. Illus. 1901. Murby, 1s.

ARITHMETIC OF ELECTRICITY: Manual of Electrical Calculations by Arithmetical Methods, by T. O'Conor Sloane (U.S.A.). Cr. 8vo. 5th ed. 138 pp. Illus. Spon, 4s. 6d.

DYNAMOMETERS AND THE MEASUREMENT of Power, by J. J. Flather (U.S.A.). Cr. 8vo. 2nd ed. Spon, 12s. 6d.

ELECTRICAL AND MAGNETIC CALCULATIONS, for Electrical Engineers, Teachers, etc., by A. A. Atkinson. Cr. 8vo. 310 pp. 1902. Lockwood, 9s.

ELECTRICAL MEASUREMENT AND the Galvanometer: Its Construction and Uses, by T. D. Lockwood. 12mo. 2nd ed. 32 Illus. Van Nostrand, N.Y., $1.50.

ELECTRICAL MEASUREMENTS, by E. Y. Houston. Cr. 8vo. 429 pp. 169 Illus. *Electrical World*, N.Y., $1.

ELECTRICAL ENGINEERING MEASURING Instruments for Commercial and Laboratory Purposes, by G. D. A. Parr. Royal 8vo. 336 pp. 370 Illus. 1903. Blackie, 9s.

GALVANOMETER AND ITS USES, by C. H. Haskins. 12mo. 4th ed. Van Nostrand, N.Y., $1.50.

GRADUATED COLLECTION OF PROBLEMS in Electricity, All Branches, by R. Weber. Cr. 8vo. 368 pp. 1902. Spon, 7s. 6d.

POTENTIOMETER AND ITS ADJUNCTS: Universal System of Electrical Measurement, by W. C. Fisher. *Electrician*, 6s.

PRACTICAL ELECTRICAL MEASUREMENTS, for Students, by E. H. Crapper. Sq. cr. 8vo. 56 Illus. 1902. Whittaker, 2s. 6d.

SYSTEMATIC TREATISE ON ELECTRICAL Measurements, by H. C. Parker (U.S.A.). 8vo. Spon, 4s. 6d.

TEMPERATURE COEFFICIENTS OF "Conductivity" Copper, by Clark, Forde and Taylor. *Electrician*, 2s. 6d.

Motors and Motive Power.

APPLICATION OF ELECTRIC MOTORS to Machine Driving, by A. Stewart. Cr. 8vo. 34 pp. 8 Illus. 1900. *Electricity*, 1s.

ELECTRICAL DESIGNS FOR SMALL Motors, Testing Instruments and other Apparatus, with Working Drawings. Med. 8vo. 262 pp. 289 Illus. 1901. Whittaker, 10s.

ELECTRICAL MOTOR INSTALLATIONS, by F. J. A. Matthews. Demy 8vo. 157 pp. 84 Illus. 1902. Scientific Pub. Co., Manchester, 2s. 6d. paper.

Motors and Motive Power, *cont.*

ELECTRIC MOTIVE POWER, by A. T. Snell. 8vo. 2nd. ed. 400 pp. 250 Illus. *Electrician*, 10s. 6d.

ELECTRO-MOTORS: HOW MADE and How Used, by S. R. Bottone. Cr. 8vo. 4th ed. 90 Illus. 1901. Whittaker, 3s.

ELECTRIC MOTOR, by E. J. Houston and A. E. Kennelly. 377 pp. 122 Ill. *Electrical World*, N.Y., $1.

ELECTRICITY AS A MOTIVE POWER, by Th. du Moncel, trans. from French. Cr. 8vo. 113 Illus. Spon, 7s. 6d.

INDUCTION MOTOR: ITS THEORY and Design, by H. Boy de la Tour, trans. by C. O. Mailloux. Royal 8vo. 200 pp. 75 Illus. 1903. McGraw Pub. Co., N.Y., $2.50.

INDUCTION MOTOR: THEORY AND Design, by B. A. Behrend (U.S.A.). Med. 8vo. 106 pp. 1901. Whittaker, 7s. 6d.

MOTIVE POWER AND GEARING for Electrical Machinery, by E. T. Carter. 8vo. 650 pp. 200 Illus. 80 Tables. *Electrician*, 12s. 6d.

MOTOR ENGINEER'S AND ELECTRICAL Worker's Handbook, by W. Lintern (U.S.A.). 12mo. Spon, 2s.

STARTERS AND REGULATORS FOR Electric Motors and Generators, by R. Krause. Demy 8vo. 140 pp. 1904. Harper, 4s. 6d.

(Electric Traction, see above.)

Pocket-books, Rules, Tables.

ELECTRICAL AND MAGNETIC CALCULATIONS, by A. A. Atkinson. 12mo. 2nd ed. 1903. Van Nostrand, N.Y., $1.50.

ELECTRICAL ENGINEERS' PRICE-BOOK, ed. by H. J. Dowsing. 12mo. 2nd ed. 478 pp. 1896. Griffin, 8s. 6d.

ELECTRICAL ENGINEERS' POCKET-BOOK, ed. by K. Edgecombe. 12mo. 149 Illus. 1903. Whittaker, 3s. 6d.

ELECTRICAL ENGINEERS' POCKET-BOOK, by H. A. Foster. 12mo. 3rd ed. 700 Illus. 1904. Spon, 21s.

ELECTRICAL ENGINEER'S POCKET-BOOK, by H. R. Kempe. Obl. 32mo. 2nd ed. Lockwood, 5s.

ELECTRICAL ENGINEERS' YEAR-BOOK (Fowler's). 500 pp. Annual. Scientific Pub. Co., Manchester, 1s. 6d.

ELECTRIC POCKET-BOOK AND Diary. 300 pp. Annual. Technical Pub. Co., Manchester, 1s.

ELECTRICAL RULES AND TABLES, Pocket-book for Electricians and Engineers, by J. Munro and Professor Jamieson. 18mo. 16th ed. 734 pp. 1903. Griffin, 8s. 6d.

ELECTRICAL TABLES AND MEMORANDA, by S. P. Thompson, D.Sc., B.A., and E. Thomas. 64mo. 134 pp. 1898. Spon, 1s.

POCKET-BOOK OF ELECTRICAL Engineering Formulæ, etc., by W. Geipel and H. Kilgour. 2nd ed. 810 pp. 1900. *Electrician*, 7s. 6d.

POCKET-BOOK OF RULES, TABLES, Boilers, Electrical Equipment and Locomotives, etc. Fcp. 8vo. 1,000 pp. Annual. *Engineering*, 12s. 6d.

PRACTICAL ELECTRICIAN'S POCKET-BOOK. 32mo. 216 pp. Annual. Rentell, 1s.

Roentgen Rays.

BIBLIOGRAPHY OF X RAY LITERATURE and Research, ed. by C. E. S. Phillips. *Electrician*, 5s.

ELECTRICITY IN MEDICINE AND Surgery, including X Rays, by Dr. W. H. King. Imp. 8vo. Homœopathic Pub. Co., 17s. 6d.

MANUAL OF PRACTICAL MEDICAL Electricity, by D. Turner. Cr. 8vo. 4th ed. 450 pp. 1904. Baillière, 10s. 6d.

PRACTICAL RADIOGRAPHY, for Surgeons and Users of X Rays, by A. W. Isenthal and H. S. Ward. Demy 8vo. 3rd ed. 198 pp. 1901. Dawbarn, 6s.

PRACTICAL X RAY WORK, by F. T. Addyman, B.Sc. Demy 8vo. 200 pp. 52 Illus. 12 Plates. 1901. Scott, Greenwood, 10s. 6d.

RADIOGRAPHY: THEORY, PRACTICE and Application, by S. R. Bottone. Cr. 8vo. 190 pp. 47 Illus. 1898. Whittaker, 3s.

ROENTGEN RAYS AND PHENOMENA of the Anode and Cathode, by E. P. Thompson. Demy 8vo. 190 pp. 105 Illus. 1896. Van Nostrand, N.Y., $1.50.

ROENTGEN RAYS IN MEDICAL Work, by D. Walsh. Demy 8vo. 3rd ed. 316 pp. 1902. Baillière, 12s. 6d.

ROENTGEN RAYS IN MEDICINE AND Surgery, by F. H. Williams (U.S.A.). 8vo. 300 Illus. Macmillan, 25s.

(See **Induction Coils**, above.)

Telegraphy.

AMERICAN TELEGRAPHY: Systems, Apparatus, Operation, by W. Mayer. 8vo. 450 Illus. Van Nostrand, N.Y., $3.50.

ELECTRIC TELEGRAPHY, by E. J. Houston and A. E. Kennelly. 448 pp. 163 Illus. *Electrical World*, N.Y., $1.

ELECTRICITY AND THE ELECTRIC Telegraph, by G. B. Prescott (U.S.A). 8th ed. 2 vols. Spon, 30s.

ELECTRICITY IN ITS APPLICATION to Telegraphy, for Examinations for Telegraphists, by T. E. Herbert. Cr. 8vo. 200 pp. 50 Illus. 1899. Whittaker, 3s. 6d.

ELECTRICITY, MAGNETISM AND Electric Telegraphy, by T. D. Lockwood (U.S.A.). 8vo. 4th ed. Illus. Spon, 12s. 6d.

ELECTRICAL TESTING FOR TELEGRAPH Engineers, by J. E. Young. Demy 8vo. 274 pp. Illus. 1898. *Electrician*, 10s. 6d.

ELEMENTARY TELEGRAPHY AND Telephony, by A. Crotch. Demy 8vo. 232 pp. 238 Illus. 1903. Spon, 4s. 6d.

HANDBOOK OF THE ELECTRO-MAGNETIC Telegraph, by A. E. Loring (U.S.A.). 18mo. 98 pp. 4th ed. 1900. Spon, 2s.

MODERN PRACTICE OF THE ELECTRIC Telegraph, by F. L. Pope. 8vo. 15th ed. Van Nostrand, N.Y., $1.50.

PRACTICAL TELEGRAPHIST, by W. Lynd. Cr. 8vo. 2nd ed. E. Menken, 3s. 6d.

RISE AND EXTENSION OF SUBMARINE Telegraphy, by W. Smith. Descriptive. Super roy. 8vo. 390 pp. Illus. 1891. Virtue, 21s.

STUDENT'S GUIDE TO SUBMARINE Cable Testing, by H. K. C. Fisher and J. C. H. Darby. Demy 8vo. 3rd ed. 244 pp. 1903. *Electrician*, 7s. 6d.

SUBMARINE CABLE-LAYING AND Repairing, by H. D. Wilkinson. 400 pp. 200 Illus. *Electrician*, 12s. 6d.

SUBMARINE CABLE TESTING, Students' Guide, by H. K. C. Fisher and J. C. H. Darby. 2nd ed. 184 pp. Illus. 1898. *Electrician*, 6s.

SUBMARINE TELEGRAPHS: Their History, Construction and Working, by C. Bright. Super roy. 8vo. 744 pp. 146 Illus. Maps. 36 Plates. 1898. Lockwood, 63s.

SUBMARINE TELEGRAPHY, by J. Bell and S. Wilson. Cr. 8vo. 63 pp. 39 Illus. 1895. *Electricity*, 1s. 6d. limp.

TELEGRAPHIC CONNECTIONS: embracing Recent Methods in Quadruplex Telegraphy, by C. Thom and W. H. Jones. Obl. 8vo. 20 Plates. Van Nostrand, N.Y., $1.50.

TELEGRAPHIC SIGNALS AND INTERNATIONAL Code Vocabularies, by J. Nicolson. 8vo. Whittaker, 3s.

TELEGRAPHISTS' GUIDE TO THE New Examination in Technical Telegraphy, by J. Bell. Cr. 8vo. 4th ed. 139 pp. 93 Illus. 1898. Rentell, 1s. 6d.

TELEGRAPHY, by Sir W. H. Preece and Sir J. Sivewright, M.A. Fcp. 8vo. 15th ed. 442 pp. 267 Illus. 1901. Longmans, 6s.

TELEGRAPHY SELF-TAUGHT, by T. A. Edison, M.A. Cr. 8vo. 1902. F. J. Drake & Co., Chicago, $1.

TESTING TELEGRAPH CABLES, by Col. V. Hoskioer. Cr. 8vo. 3rd ed. Spon, 4s. 6d.

Telephones.

A B C OF THE TELEPHONE, by J. E. Homans, A.M. Demy 8vo. 352 pp. 269 Illus. 1901. Audel Theodore, N.Y., $1.

AMERICAN TELEPHONE PRACTICE, by K. B. Miller. Large 8vo. 3rd ed. 518 pp. 379 Illus. 1901. *Electrical World*, N.Y., $3.

BELL'S SPEAKING TELEPHONE: Its Invention, Construction, Application and Modification, by G. B. Prescott (U.S.A.). Royal 8vo. 2nd ed. 330 Illus. Spon, 25s.

Telephones, *continued.*

ELECTRIC TELEPHONE, by E. J. Houston and A. E. Kennelly. 12mo. 2nd ed. 412 pp. 143 Illus. 1902. *Electrical World*, N.Y., $1.

MAGNETO-HAND TELEPHONE: Its Construction and Fitting-up, by N. Hughes (U.S.A.). Sq. 16mo. Spon, 3s. 6d.

MANUAL OF RURAL TELEPHONY, by J. A. Williams. 1903. Manual Pub. Co., Cleveland, U.S.A., $1.

MANUAL OF TELEPHONY, by Sir W. H. Preece and A. J. Stubbs. Cr. 8vo. 508 pp. Illus. 1893. Whittaker, 15s.

PRACTICAL FEATURES OF TELEPHONE Work, by A. E. Dobbs (U.S.A.). 134 pp. 61 Illus. *Electricity*, 3s. 6d.

PRACTICAL TELEPHONE HANDBOOK and Guide to Telephonic Exchange, by T. S. Baldwin. Cr. 8vo. Illus. F. J. Drake & Co., Chicago, $1.25.

PRACTICAL TELEPHONE HANDBOOK, by J. Poole. Sq. cr. 8vo. 2nd ed. 360 pp. 228 Illus. 1895. Whittaker, 5s.

PRACTICAL TELEPHONY, for Students, by J. Bell and S. Wilson. Cr. 8vo. 2nd ed. 299 pp. 249 Illus. 1899. *Electricity*, 2s. 6d.

TELEPHONE HANDBOOK, by H. L. Webb. 16mo. 146 pp. 128 Illus. Van Nostrand, N.Y., $1.

TELEPHONE LINES AND METHODS of Constructing Them Overhead and Underground, by W. C. Owen. Cr. 8vo. 406 pp. 265 Illus. 1903. Whittaker, 5s.

TELEPHONE LINES AND THEIR Properties, by J. W. Hopkins (U.S.A.). Cr. 8vo. 6th ed. 307 pp. 7 Illus. 39 Diagrams. 1901. Longmans, 6s.

TELEPHONE, MICROPHONE AND THE Phonograph, by Count du Moncel. 12mo. 4th ed. 363 pp. 74 Illus. 1892. Kegan Paul, 5s.

TELEPHONE SYSTEM OF THE British Post Office, by T. E. Herbert. Cr. 8vo. 3rd ed. 220 pp. 146 Illus. 1904. Whittaker, 3s. 6d.

TELEPHONES: THEIR CONSTRUCTION and Fitting, by F. C. Allsop. Cr. 8vo. 6th ed. 192 pp. 1900. Spon, 3s. 6d.

TELEPHONE TROUBLES AND HOW to Find Them, for Telephone Inspectors, by C. H. Haskins. *Electricity*, 1s. 6d.

TELEPHONY: MANUAL OF THE Design, Construction and Operation of Telephone Exchanges, by A. V. Abbott. 6 vols. 1903. McGraw Pub. Co., N.Y., $1.50 each.

THE INSPECTOR AND THE TROUBLE Man: Defects in Telephone Maintenance. *Electricity*, 4s. 6d.

Testing.

ELECTRICAL ENGINEERING TESTING, for Second and Third Year Students, by G. D. A. Parr. Demy 8vo. 2nd ed. 482 pp. 218 Illus. 31 Tables. 1902. Chapman, 9s.

GUIDE TO THE PRACTICAL ELEMENTS of Electrical Testing, by J. Warren. Cr. 8vo. 192 pp. 1902. Rentell, 3s. 6d.

HANDBOOK FOR ELECTRICAL LABORATORY and Testing Room, by J. A. Fleming. Vol. I. Demy 8vo. 550 pp. 1901. 12s. 6d. Vol. II. Demy 8vo. 630 pp. 1903. 14s. *Electrician.*

HANDBOOK OF ELECTRICAL TESTING, by H. R. Kempe. Demy 8vo. 6th ed. 646 pp. 238 Illus. 1900. Spon, 18s.

PRACTICAL ELECTRICAL TESTING IN Physics and Electrical Engineering, for First and Second Year Students, by G. D. A. Parr. Demy 8vo. 392 pp. 231 Illus. 1901. Longmans, 8s. 6d.

Toy and Model-making.

ELECTRIC TOY-MAKING, DYNAMO Building and Electric Motor Construction, for Amateurs, by T. O'Conor Sloane (U.S.A.). Cr. 8vo. 7th ed. Spon, 4s. 6d.

ELECTRICAL INSTRUMENT-MAKING, for Amateurs, by S. R. Bottone. Cr. 8vo. 7th ed. 290 pp. 96 Illus. 1900. Whittaker, 3s. 6d.

SIMPLE ELECTRICAL WORKING Models: How to Make and Use Them, by P. Marshall. Cr. 8vo. 1902. Dawbarn, 6d. paper.

(Transformers, see **Alternating Currents.**)

Transmission and Distribution.

ELECTRICAL DISTRIBUTION: Its Theory and Practice. Part I., by M. H. Kilgour. Part II., by H. Swan and C. H. W. Biggs. Whittaker, 10s. 6d.

ELECTRIC POWER TRANSMISSION, by L. Bell (U.S.A.). Royal 8vo. 3rd ed. 642 pp. 282 Illus. 31 Plates. 1902. Whittaker, 15s.

ELECTRIC TRANSMISSION HANDBOOK, by F. B. Badt. 18mo. 22 Illus. 27 Tables. Van Nostrand, N.Y., $1.

ELECTRICAL TRANSMISSION OF Energy, by A. V. Abbott. 8vo. 2nd ed. Illus. Van Nostrand, N.Y., $4.50.

ELECTRIC TRANSMISSION OF Energy and its Transformation, Subdivision and Distribution, by G. Kapp. Cr. 8vo. 4th ed. 450 pp. 166 Illus. 1894. Whittaker, 10s. 6d.

GENERATION OF TRANSMISSION OF Electric Energy at and from Coal Pit Centres, by B. H. Thwaite. 8vo. 1902. Spon, 2s. 6d. paper.

POWER TRANSMITTED BY ELECTRICITY, including Electric Railway Construction, by P. Atkinson. Cr. 8vo. 3rd ed. 94 Illus. 1902. Lockwood, 7s. 6d.

(**Electric Traction.** See above.)

Wireless Telegraphy.

HISTORY OF WIRELESS TELEGRAPHY, by J. J. Fabie. Cr. 8vo. 2nd ed. 348 pp. Illus. 1901. Blackwood & Sons, 6s.

SIGNALLING ACROSS SPACE WITHOUT Wires, Dr. O. J. Lodge. Demy 8vo. 3rd ed. 136 pp. Illus. 1900. *Electrician*, 5s.

WIRELESS TELEGRAPHY AND Hertzian Waves, by S. R. Bottone. Cr. 8vo. 2nd ed. 150 pp. 37 Illus. 1901. Whittaker, 3s.

WIRELESS TELEGRAPHY AND Telephony, by M. Ernst. 8vo. Illus. 1903. *Electricity*, 1s.

WIRELESS TELEGRAPHY: ITS ORIGIN, Development, Apparatus, by C. H. Sewall. Demy 8vo. 238 pp. 85 Illus. 1903. Van Nostrand, N.Y., $2.

WIRELESS TELEGRAPHY POPULARLY Explained, by R. Kerr. 12mo. 5th ed. 116 pp. 1901. Seeley, 1s. 6d.

Wiring.

CONDUIT WIRING AND ERECTION of Steel Conduits, by L. M. Waterhouse. Cr. 8vo. 80 pp. Illus. 1901. Rentell, 1s.

ELECTRIC LIGHT CABLES AND THE Distribution of Electricity, by S. A. Russell. Cr. 8vo. 2nd ed. 404 pp. 110 Illus. 1901. Whittaker, 10s. 6d.

ELECTRICIAN WIREMAN'S POCKETBOOK, edited by F. C. Raphael. 1901. *Electrician*, 5s.

ELECTRIC WIRING AND FITTING, by C. V. Drysdale. Obl. cr. 8vo. 1901. R. J. Bush, 3s.

ELECTRIC WIRING, FITTINGS, Switches and Lamps, by W. P. Maycock. Cr. 8vo. 3rd ed. 460 pp. 360 Illus. 1902. Whittaker, 6s.

ELECTRIC WIRING, for Architects, Underwriters and Owners, by R. Robb (U.S.A.). 4to. 183 pp. 76 Illus. 1896. Macmillan, 10s.

ELECTRIC WIRING, for Students, by W. C. Clinton, B.Sc. Fcp. 8vo. 1902. J. Murray, 1s. 6d.

ELECTRIC WIRING TABLES, by W. P. Maycock. 32mo. 2nd ed. 150 pp. 1903. Whittaker, 3s. 6d.

HOW TO WIRE BUILDINGS, by A. Noll (U.S.A.). Demy 8vo. 7th ed. 162 pp. 1900. *Electricity*, 6s. 6d.

INCANDESCENT WIRING HANDBOOK, by F. B. Badt. 18mo. 5th ed. 35 Illus. Van Nostrand, N.Y., $1.

LOCALISATION OF FAULTS IN Electric Light Mains, by F. C. Raphael. 8vo. 2nd ed. 220 pp. 1903. *Electrician*, 7s. 6d.

PRACTICAL GUIDE TO THE TESTING of Insulated Wires and Cables, by H. L. Webb. 12mo. Illus. Van Nostrand, N.Y., $1.

STANDARD WIRING FOR ELECTRIC Light and Power, by H. C. Cushing, jun. (U.S.A.). 12mo. 134 pp. Illus. 1901. *Electricity*, 4s. 6d.

UNIVERSAL WIRING COMPUTER, by C. Herring. 44 pp. 4 Charts. *Electrical World*, N.Y., $1.

(**Elections.** See section 56.)

SECTION 20.

ELOCUTION, VOICE PRODUCTION.

AMERICAN STAR SPEAKER AND Model Elocutionist, ed. by C. W. Brown. Demy 8vo. Illus. 1902. Henneberry Co., Chicago, $1.50.

ART OF BREATHING AS THE BASIS of Tone Production. Cr. 8vo. 288 pp. 1903. Curwen, 4s.

ART OF READING AND SPEAKING, by Rev. J. Fleming, B.D. Cr. 8vo. 5th ed. 250 pp. E. Arnold, 3s. 6d.

ELEMENTS OF ELOCUTION AND CORRECT Reading, by Rev. C. Richson, M.A. Fcp. 8vo. 2nd ed. 170 pp. T. Laurie, 1s. 6d.

ESSENTIALS OF ELOCUTION, by A. Ayres. 16mo. 174 pp. Funk & Wagnall, 3s.

EXERCISES AND OBSERVATIONS ON the Cultivation of the Voice, by R. Aspra. Novello, 2s. 6d.

EXERCISES IN VOICE PRODUCTION and Enunciation, by R. Dunstan. Cr. 8vo. 2nd ed. 68 pp. 1899. Curwen, 1s. 6d.

HEALTH, SPEECH AND SONG. Guide to Voice Production, by J. Bell-Ranske. Demy 8vo. 160 pp. Plates. 1902. Sonnenschein, 4s. 6d.

KING'S COLLEGE LECTURES ON Elocution, by C. J. Plumptre. Demy 8vo. 5th ed. 488 pp. 1895. Kegan Paul, 15s.

MANUAL OF ELOCUTION, by J. Forsyth. Cr. 8vo. 320 pp. 1903. Dent, 2s.

POPULAR ELOCUTIONIST AND RECITER, with hints, by J. E. Carpenter. 8vo. 640 pp. 1902. Warne, 3s. 6d.

PRACTICAL ELEMENTS OF ELOCUTION, by R. J. Fulton (U.S.A.). Cr. 8vo. 3rd ed. 464 pp. 1898. Ginn, 6s. 6d.

PRACTICAL GUIDE TO ARTICULATION for Singing and Speaking, by J. Clarkson. Cr. 8vo. 40 pp. 1903. J. Heywood, 1s.

PRACTICAL LIP-READING, for Use of Deaf, by E. F. Boultbee. Cr. 8vo. 120 pp. 1902. Upcott Gill, 2s.

PRIMER OF ELOCUTION IN RECITATION and Song, by F. Harrison, M.A. 12mo. 92 pp. Curwen, 1s. 6d.

PRINCIPLES OF ELOCUTION, by A. M. Bell (U.S.A.). 12mo. 7th ed. 240 pp. Kegan Paul, 7s. 6d.

SPEAKING VOICE: Its Development and Preservation, by Mrs. E. Behnke. Cr. 8vo. 5th ed. 270 pp. Illus. Curwen, 4s. 6d.

TEXT-BOOK ON THE NATURAL USE of the Voice, by G. E. Thorp and W. Nicholl. Cr. 8vo. 4th ed. 140 pp. 1899. E. Arnold, 2s. 6d.

VOICE BUILDING AND TONE PLACING, by H. H. Curtis. Cr. 8vo. 228 pp. 1901. H. Kimpton, 7s. 6d.

VOICE CULTURE AND ELOCUTION, by W. T. Ross. 12mo. Baker & Taylor Co., N.Y., $1.25.

VOICE, SPEECH AND GESTURE. Practical Handbook to the Elocutionary Art, ed. by R. D. Blackman. Demy 8vo. 1132 pp. 1900. C. W. Deacon & Co., 5s.

(**Singing**, see **Music**, section 45.)

SECTION 21.

ENGINEERING, METAL WORK, HARDWARE.

Arches.

ART OF CONSTRUCTING OBLIQUE Arches with Spiral Courses, by W. Donaldson, M.A. 8vo. Plates. Spon, 4s.

CONSTRUCTION OF OBLIQUE ARCHES, by J. Hart. Imp. 8vo. 3rd ed. Lockwood, 8s.

SEGMENTAL AND ELLIPTICAL OBLIQUE or Skew Arches, by G. J. Bell. Roy. 8vo. 125 pp. 17 Plates. 7 Illus. 1896. Spon, 21s.

STRAINS ON BRACED IRON ARCHES and Arched Iron Bridges, by A. S. Heaford. Large cr. 8vo. 39 pp. 7 Plates. 7 Illus. 1883. Spon, 6s.

THEORY OF SOLID AND BRACED Elastic Arches Applied to Arch Bridges and Roofs in Iron, Wood, Concrete, etc., by W. Cain (U.S.A.). 18mo. 172 pp. Illus. Spon, 2s.

THEORY OF VOUSSOIR ARCHES Applied to Stone Bridges, Tunnels, etc., by W. Cain (U.S.A.). 18mo. 201 pp. 2nd ed. Spon, 2s.

TREATISE ON ARCHES, for Engineers and Students, by M. A. Howe (U.S.A.). 8vo. 73 Illus. 1897. Chapman, 17s.

TREATISE ON THE VARIOUS ELEMENTS of Stability in the Well-proportioned Arch, by D. V. Woodbury. 8vo. Van Nostrand, N.Y., $4.

TRUSSES AND ARCHES, by C. E. Greene (U.S.A.). 3 vols. Vol. I. Roof Trusses. New ed. 8vo. 5s. 6d. Vol. II. Bridge Trusses. Single, Continuous and Draw Spans. Demy 8vo. 4th ed. 189 pp. 10 Plates. 10s. 6d. Vol. III. Arches in Wood, Iron and Stone, for Roofs, Bridges and Wall Openings. Demy 8vo. 3rd ed. 190 pp. 8 Plates. 10s. 6d. Chapman.

(See **Bridges**, also **Strains and Stresses**, below.)

Architectural Engineering.

ARCHITECTURAL ENGINEERING, with Reference to High Building Construction, by J. K. Freitag (U.S.A.). Royal 8vo. 239 pp. 120 Illus. 1895. Chapman, 10s. 6d.

ARCHITECTURAL IRON AND STEEL, and its Application in the Construction of Buildings, by W. H. Birkmere (U.S.A.). Demy 8vo. 3rd ed. 201 pp. Illus. Chapman, 15s.

ARCHITECTURAL WROUGHT IRON, Ancient and Modern, by W. W. Kent. 4to. 36 plates. 50 Illus. Comstock, N.Y., $2.

COMPOUND RIVETED GIRDERS AS Applied in Buildings, by W. H. Birkmere (U.S.A.). Demy 8vo. 1893. Chapman, 8s. 6d.

ENGINEER OR ARCHITECT AS ARBITRATOR between Employer and Contractor, by C. C. Gregory. Demy 8vo. 1901. Clowes, 12s. 6d.

ENGINEERING AND ARCHITECTURAL Jurisprudence, Law of Construction, by J. C. Wait, LL.B. (U.S.A.). 8vo. 1897. Chapman, 25s.

METALLIC STRUCTURES: Corrosion and Fouling, and their Prevention; Safety of Works in Iron and Steel and of Ships, by J. Newman. Cr. 8vo. 374 pp. 1896. Spon, 9s.

NOTES ON ENGINEERING CONSTRUCTION, by J. C. Shields. 12mo. Van Nostrand, N.Y., $1.50.

PRACTICAL DESIGNING OF STRUCTURAL Ironwork, by H. Adams. Large cr. 8vo. 194 pp. 14 Plates. 1894. Spon, 8s. 6d.

SKELETON CONSTRUCTION IN Buildings, by W. H. Birkmere (U.S.A.). Demy 8vo. 2nd ed. 237 pp. 114 Illus. 1894. Chapman, 12s. 6d.

STRENGTH AND CALCULATIONS OF Dimensions of Iron and Steel Construction, by J. J. Weybrauch. 12mo. Van Nostrand, N.Y., $1.

STRUCTURAL IRON AND STEEL, by W. N. Twelvetrees. Cr. 8vo. 280 pp. 234 Illus. 1900. Whittaker, 7s.

(**Arches.** See above.)

(**Building Construction, Roofing,** etc. See section 3.)

Bell-hanging.

BELL-HANGER'S HANDBOOK, by F. B. Badt. 18mo. 2nd ed. 97 Illus. Van Nostrand, N.Y., $1.

(**Electric Bells.** See section 19.)

Bicycles.

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HOW TO MAKE AND HOW TO MEND, by an Amateur Mechanic. Cr. 8vo. 3rd ed. 292 pp. 277 Illus. 1901. Sonnenschein, 2s. 6d.

MANAGEMENT OF ENGINEERING Workshops, by A. H. Barker, B.A., B.Sc. Six Lectures. 194 pp. 14 Plates. 1901. Institution of Junior Engineers, 3s. paper.

MANAGEMENT OF SMALL ENGINEERING Workshops, by A. H. Barker. Cr. 8vo. 256 pp. 1899. Technical Pub. Co., Manchester, 7s. 6d.

MANUAL OF MENDING AND REPAIRING, by C. G. Leland. Cr. 8vo. 263 pp. 1896. Chatto & Windus, 5s.

MECHANICS' COMPLETE LIBRARY of Rules, Facts, Processes, etc. 12mo. 588 pp. Illus. Laird & Lee, Chicago, $1.

MECHANIC'S FRIEND, Receipts and Suggestions Relating to Aquaria, Bronzing, Cements, Electricity, etc., ed. by W. E. A. Axon. Cr. 8vo. 2nd ed. 339 pp. Illus. 1891. Kegan Paul, 3s. 6d.

MECHANIC'S WORKSHOP HANDY BOOK, by P. N. Hasluck. Cr. 8vo. 144 pp. Lockwood, 1s.

MODERN MACHINE SHOP TOOLS, by W. H. Van Dervoort. Royal 8vo. 4th ed. 550 pp. 1904. Lockwood, 21s.

MODERN WORKSHOP HINTS, by R. Grimshaw (U.S.A.). Cr. 8vo. 444 pp. 528 Illus. 1902. Low, 10s. 6d.

PRACTICAL MECHANICS' WORKSHOP Companion, by W. Templeton, revised by W. S. Hutton. 12mo. 18th ed. 250 Illus. 8 Plates. 1901. Lockwood, 6s.

SHOP KINKS AND MACHINE SHOP Chat, by R. Grimshaw (U.S.A.). Cr. 8vo. 393 pp. 222 Illus. 1896. Low, 10s. 6d.

SPON'S MECHANICS' OWN BOOK. Demy 8vo. 5th ed. 700 pp. 1420 Illus. Spon, 6s.

UNIVERSAL ASSISTANT AND COMPLETE Mechanic: Processes, Rules, Receipts, etc., by R. Moore (U.S.A.). 12mo. 1016 pp. 500 Illus. Sampson Low, 10s. 6d.

WORKSHOP APPLIANCES, by C. P. B. Shelley. Fcp. 8vo. 11th ed. 377 pp. 323 Illus. 1897. Longmans, 5s.

WORKSHOP COSTS, for Engineers and Manufacturers, by S. and F. Penn. Folio. 1904. Simpkin, 21s.

WORKSHOP RECEIPTS, for Mechanics and Amateurs, by E. Spon. 2nd ed. First Series. Cr. 8vo. 420 pp. 103 Illus. 1895. Third Series. Electrical and Metallurgical Subjects. Cr. 8vo. 480 pp. 183 Illus. Fourth Series. Handicrafts and Mechanical Subjects. Cr. 8vo. 443 pp. 243 Illus. Fifth Series. Cr. 8vo. 440 pp. 373 Illus. Spon, 5s. each.

WRINKLES AND RECIPES, compiled from *Scientific American*, by P. Benjamin (U.S.A.). Cr. 8vo. 5th ed. 300 pp. Illus. 1894. Chapman, 10s. 6d.

YOUNG ENGINEER AND AMATEUR Carpenter and Electrician. Vol. I. Royal 8vo. 1902. G. Pitman, 5s.

YOUNG ENGINEER'S OWN BOOK, for Students, by S. Roper. 16mo. 363 pp. 106 Illus. D. McKay, Philadelphia, $2.50.

(**Estimates.** See **Costing.**)

Fuel, Smoke.

BRIQUETTES AND PATENT FUEL: Their Manufacture and Machinery connected therewith, by P. R. Björling. Med. 8vo. 254 pp. 121 Illus. 1903. Rebman, 15s.

CALORIFIC POWER OF FUELS, by H. Poole (U.S.A.). Med. 8vo. 255 pp. 40 Illus. 1898. Chapman, 12s. 6d.

CATECHISM ON THE COMBUSTION of Coal and the Prevention of Smoke, by W. M. Barr (U.S.A.). Cr. 8vo. 350 pp. 85 Illus. 1900. Low, 8s. 6d.

COAL AND SPEED TABLES, for Engineers and Steam Users, by N. Foley. 12mo. 1884. Lockwood, 3s. 6d.

COMBUSTION OF FUEL, with reference to Smoke Prevention, by W. W. F. Pullen. Demy 8vo. 88 pp. 59 Illus. Scientific Pub. Co., Manchester, 3s. 6d.

FUEL AND ITS APPLICATIONS, being Vol. I. of Chemical Technology, by E. J. Mills, D.Sc., and F. J. Rowan. Royal 8vo. 802 pp. 606 Illus. 7 Plates. 1889. Churchill, 30s.

FUEL AND REFRACTORY MATERIALS, by A. H. Sexton. Cr. 8vo. 352 pp. 104 Illus. 1897. Blackie, 5s.

FUEL AND WATER: Manual for Users of Steam and Water, by F. Schwackhöfer and W. R. Browne. Demy 8vo. 255 pp. 85 Illus. 1884. Griffin, 9s.

FUELS: SOLID, LIQUID AND Gaseous: Their Analysis and Valuation, by H. J. Phillips. 2nd ed. Lockwood, 2s.

GAS AND FUEL ANALYSIS, for Engineers, by A. H. Gill (U.S.A.). Cr. 8vo. 84 pp. 1896. Chapman, 5s. 6d.

PRACTICAL SMOKE PREVENTION, by W. Nicholson. Cr. 8vo. 151 pp. 18 Illus. 1902. Sanitary Pub. Co., 3s. 6d.

PREVENTION OF SMOKE, COMBINED with the Economical Combustion of Fuel, by W. C. Popplewell, M.Sc. Demy 8vo. 190 pp. 46 Illus. 1901. Scott, Greenwood, 7s. 6d.

(**Boilers.** See above. **Steam and Heat.** See below. **Coal.** Sect. 43.)

Galvanising, Tinning.

GALVANISING AND TINNING, by W. T. Flanders (U.S.A.). Cr. 8vo. 93 pp. 40 Illus. 1900. *Iron Age*, Hastings House, W.C., 8s. 6d.

GALVANISED IRON: ITS MANUFACTURE and Uses, by J. Davies. Cr. 8vo. 139 pp. 1900. Spon, 5s.

TINMAN'S MANUAL AND BUILDER'S and Mechanic's Handbook, by I. R. Butts. 12mo. 6th ed. De Wolfe, Fishe, Boston, U.S.A., $1.25.

TINSMITHS' HELPER AND PATTERN Book, by H. K. Vos Burgh. Fcp. 8vo. New ed. 123 pp. 53 Illus. D. Williams Co., N.Y., $1.

(**Japanning, Lacquering.** See below.)

Gas, Oil and Air Engines.

CYCLES OF GAS AND OIL ENGINES, by J. D. Roots. Demy 8vo. 87 pp. Illus. 1900. *Engineer*, 4s. 6d.

DESIGN AND CONSTRUCTION OF Oil Engines, by A. H. Goldingham (U.S.A.). Cr. 8vo. 2nd ed. 250 pp. 1904. 79 Illus. Spon, 6s. 6d.

GAS AND OIL ENGINE, by D. Clerk. Demy 8vo. 588 pp. 228 Illus. 1899. Longmans, 15s.

GAS AND PETROLEUM ENGINES, by A. G. Elliott, B.Sc. Cr. 8vo. 150 pp. 52 Illus. 1898. Whittaker, 2s. 6d.

GAS AND PETROLEUM ENGINES, by Prof. W. Robinson. 2nd ed. 942 pp. 474 Illus. 1902. Spon, 21s.

GAS ENGINE CONSTRUCTION, by H. V. A. Parsall and A. J. Weed. Large 8vo. 300 pp. Illus. 1900. Henley & Co., N.Y., $2.50.

GAS ENGINE HANDBOOK, by E. W. Roberts. Cr. 8vo. 2nd ed. 241 pp. 40 Illus. 1901. Gas Engine Pub. Co., Cincinnati, U.S.A., $1.25.

GAS ENGINES: THEIR ADVANTAGES, Action and Application, by W. A. Tookey. Sq. 12mo. 112 pp. 1903. Merritt & Hatcher, 1s.

GAS, GASOLINE AND OIL ENGINES, by G. D. Hiscox. Royal 8vo. 4th ed. 365 pp. 270 Illus. 1901. N. W. Henley & Co., N.Y., $2.50.

GAS, OIL AND AIR ENGINES, by Bryan Donkin. Large 8vo. 3rd ed. 501 pp. 149 Illus. 9 Tables. 1900. Griffin, 25s.

PRACTICAL HANDBOOK ON THE Care and Management of Gas Engines, by G. Lieckfield (U.S.A.). Sq. 16mo. 3rd ed. 118 pp. 1901. Spon, 3s. 6d.

Gas, Oil and Air Engines, *continued.*

PRACTICAL TREATISE ON MODERN Gas and Oil Engines, by F. Grover. Cr. 8vo. 3rd ed. 378 pp. 123 Illus. 1902. Technical Pub. Co., Manchester, 5s.

PRACTICAL TREATISE ON THE "Otto" Cycle Gas Engine, by W. Norris. Royal 8vo. 268 pp. 207 Illus. 1896. Longmans, 10s. 6d.

STEAM, GAS AND OIL ENGINES, by J. Perry. Med. 8vo. Illus. Macmillan, 7s. 6d.

(**Heat, and Steam Engines.** See below.)

Gearing.

ESSENTIALS OF GEARING, for Students, by G. C. Anthony. Obl. 8vo. 84 pp. text. 15 Plates. 1897. Isbister, 6s.

HELICAL GEARS: Practical Treatise, by J. Horner. Cr. 8vo. 101 Illus. Whittaker, 5s.

PLAIN PRACTICAL DIRECTIONS FOR Drawing, Sizing and Cutting Bevel Gears. 8vo. Plates. Van Nostrand, N.Y., $1.50.

PRACTICAL TREATISE ON MILL Gearing, Wheels, Shafts, Riggers, etc., by T. Box. Cr. 8vo. 5th ed. 11 Plates. Spon, 7s. 6d.

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TOOTHED GEARING, by J. Horner. Cr. 8vo. 208 pp. 184 Illus. 1892. Lockwood, 6s.

TREATISE ON TOOTHED GEARING, by J. H. Cromwell (U.S.A.). Cr. 8vo. 4th ed. 245 pp. 130 Illus. 1894. Chapman, 6s. 6d.

TREATISE ON VALVE GEARS AND Link Motions of Locomotives, trans. from Dr. G. Zenner. Demy 8vo. 2nd ed. 250 pp. 6 Plates. Spon, 12s. 6d.

VALVE AND VALVE GEARING, by C. Hurst. Demy 8vo. 3rd ed. 153 pp. 121 Illus. 5 Plates. 1903. Griffin, 10s. 6d.

VALVE GEARS FOR THE STEAM Engine, by C. H. Peabody (U.S.A.). Demy [illegible] 2nd ed. 128 pp. 33 Plat[illegible] Chapman, 10s. 6d.

WHEEL GEARING: Table of Pitch-line Diameters, Teeth, etc., by A. Wildgoose and A. J. Orr. 18mo. 176 pp. 1903. Spon, 2s.

Guns, Pistols, Rifles.

BREECH-LOADER AND HOW TO USE It, by W. W. Greener. 330 pp. 1899. Forest & Stream Pub. Co., N.Y., $1.50.

EXPERTS ON GUNS, SHOOTING, by G. T. T. Buchell. Super Royal 8vo. 620 pp. 1900. Low, 14s.

GUN AND ITS DEVELOPMENT, by R. W. Greener. 770 pp. Forest & Stream Pub. Co., N.Y., $3.

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MODERN AMERICAN PISTOLS AND Revolvers, by A. C. Gould. Demy 8vo. Knight & Millet, Boston, U.S.A., $1.50.

MODERN AMERICAN RIFLES, WITH Complete Account of Manufacture, Use and Records, by A. C. Gould. Large cr. 8vo. Illus. Knight & Millet, Boston, U.S.A., $2.

(**Ordnance.** See section 42.)

Hardware.

AMERICAN HARDWARE STORE, ed. by R. R. Williams. Royal 8vo. 450 pp. 500 Illus. D. Williams Co., N.Y., $3.

COMPLETE IRONMONGER. 8vo. 3rd ed. 258 pp. 1900. *Ironmonger*, 3s. 6d.

HARDWARE STORE BUSINESS Methods, ed. by R. R. Williams. Cr. 8vo. 200 pp. Illus. 1901. D. Williams Co., N.Y., $1.

THOMAS' AMERICAN HARDWARE Trades Reference Book. 12mo. Annual. Thomas Pub. Co., N.Y., $5.

Heat.

CONVERSION OF HEAT INTO WORK, by Sir W. Anderson, F.R.S., D.C.L. Cr. 8vo. 4th ed. 275 pp. 62 Illus. 1890. Whittaker, 6s.

ELASTICITY AND HEAT, by Sir W. Thomson. 4to. 30 pp. 13 Illus. 1878. A. & C. Black, 6s.

ELEMENTARY TREATISE ON HEAT in Relation to Steam and the Steam

Engine, by G. Shann. Cr. 8vo. 120 pp. 34 Illus. 1877. Macmillan, 4s. 6d.

ELEMENTARY TREATISE ON THE Mechanical Theory of Heat, by R. S. McCulloch. Demy 8vo. 287 pp. 1876. Van Nostrand, N.Y., $3.50.

ENTROPY DIAGRAM AND ITS Applications, by M. J. Boulvin, trans. from French. Demy 8vo. 70 pp. 38 Illus. 1898. Spon, 5s.

HEAT AND HEAT ENGINES, by F. R. Hutton (U.S.A.). Demy 8vo. 553 pp. 198 Illus. 1899. Chapman, 21s.

HEAT AND HEAT ENGINES, by W. C. Popplewell. Cr. 8vo. 376 pp. 67 Illus. 1897. Technical Pub. Co., Manchester, 6s.

HEAT AS A FORM OF ENERGY, by R. H. Thurston. Cr. 8vo. 261 pp. 8 Illus. 1890. Heinemann, 5s.

HIGH TEMPERATURE MEASUREMENTS, trans. from H. le Chatelier and O. Boudonard (U.S.A.). 12mo. 230 pp. 52 Illus. Chapman, 12s. 6d.

PRACTICAL TREATISE ON HEAT, by T. Box. Cr. 8vo. 9th ed. 300 pp. 14 Plates. Spon, 12s. 6d.

TEXT-BOOK OF HEAT, by R. W. Stewart, D.Sc. Cr. 8vo. 3rd ed. 328 pp. Clive, 3s. 6d.

THERMO-DYNAMICS, HEAT MOTORS, and Refrigerating Machines, by de V. Wood (U.S.A.). Demy 8vo. 7th ed. 475 pp. Illus. 1895. Chapman, 17s.

THEORY AND CONSTRUCTION OF A Rational Heat Motor, by R. Diesel, trans. from German. 8vo. 11 Illus. 3 Plates. Spon, 6s.

THETA-PHI DIAGRAM, Practically Applied to Steam, Gas, Oil and Air Engines, by H. A. Golding. 123 pp. 48 Illus. 1898. Technical Pub. Co., Manchester, 3s.

(**Steam Engines.** See below.
Fuel. See above.)

Hydraulic Engineering.

CALCULATIONS IN HYDRAULIC Engineering, by T. C. Fidler. Part I. Fluid Pressure. Med. 8vo. 154 pp. 55 Illus. 1902. Longmans, 7s. 6d.

GRAPHICAL SOLUTION OF HYDRAULIC Problems, by F. C. Coffin (U.S.A.). 12mo. 34 Plates. 1897. Chapman, 10s. 6d.

HYDRAULIC AND OTHER TABLES for Purposes of Sewerage and Water Supply, by T. Hennel. Cr. 8vo. 2nd ed. 76 pp. 1901. Spon, 5s.

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HYDRAULIC MANUAL, by L. d'A. Jackson. Large cr. 8vo. 4th ed. 184 pp. 1883. Lockwood, 16s.

HYDRAULIC MOTORS AND TURBINES, by G. R. Bodmer. Cr. 8vo. 3rd ed. 582 pp. 204 Illus. 1901. Whittaker, 15s.

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HYDRAULIC TABLES, for Calculation of Discharge through Sewers, Pipes and Conduits, by P. J. Flynn (U.S.A.). 18mo. 115 pp. Spon, 2s.

HYDRAULIC TABLES FOR FINDING Mean Velocity and Discharge in Open Channels, by T. Higham. Super royal 8vo. 2nd ed. 1898. Spon, 7s. 6d.

HYDRAULICS AND HYDRAULIC Motors, by A. J. Du Bois (U.S.A.), trans. from Weisbach's Mechanics. 8vo. 2nd ed. Chapman, 21s.

HYDRAULICS, with Working Tables, by E. S. Bellasis. Demy 8vo. 316 pp. 1903. Rivingtons, 16s.

NEW TABLES FOR THE COMPLETE Solution of Ganguillet and Kutter's Formula for the Flow of Liquid in Open Channels, Pipes, Sewers and Conduits, by E. C. S. Moore. Med. 8vo. 231 pp. 1 Plate. 1901. Batsford, 15s.

Hydraulic Engineering, *continued.*

PRACTICAL HYDRAULICS: Rules and Tables for Engineers, by T. Box. Cr. 8vo. 13th ed. 88 pp. 1902. Spon, 5s.

SIMPLE HYDRAULIC FORMULÆ, by T. W. Stone. Cr. 8vo. 82 pp. 9 Plates. 1881. Spon, 4s.

TABLES SHOWING LOSS OF HEAD Due to Friction of Water in Pipes, by E. B. Weston. 12mo. 2nd ed. 170 pp. 1900. Van Nostrand, N.Y., $1.50.

TRANSMISSION OF POWER BY Fluid Pressure, Air and Water, by W. Donaldson, M.A. 8vo. 2 Plates. Spon, 6s.

TREATISE ON HYDRAULIC AND Water Supply Engineering, by J. T. Fanning. Med. 8vo. 15th ed. 650 pp. 1902. Van Nostrand, N.Y., $5.

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TREATISE ON HYDRODYNAMICS, by A. B. Basset. Vol. I. 8vo. 264 pp. 1888. 10s. 6d. Vol. II. 8vo. 328 pp. 1888. 12s. 6d. Bell.

WATER OR HYDRAULIC MOTORS, by P. R. Björling. Cr. 8vo. 287 pp. 206 Illus. 1894. Spon, 9s.

WATER POWER, by J. P. Frizell (U.S.A.). Demy 8vo. 563 pp. 1901. Chapman, 21s.

(**Water.** See section 71.)

Indicators.

ELEMENTARY TREATISE ON STEAM and Use of the Indicator, by J. C. Graham. 8vo. Spon, 9s.

INDICATOR DIAGRAM: Its Analysis and Calculation, by C. N. Pickworth. Cr. 8vo. 150 Illus. Pickworth, Fallowfield, Manchester, 3s.

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INDICATOR DIAGRAMS, with Chapters on Engine and Boiler Testing, by C. Day. Cr. 8vo. 3rd ed. 214 pp. Tables. 1898. Technical Pub. Co., Manchester, 4s. 6d.

INDICATOR PRACTICE AND STEAM Engine Economy, by F. F. Hemenway (U.S.A.). 12mo. 6th ed. Chapman, 8s. 6d.

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STEAM ENGINE AND THE INDICATOR, by W. B. le Van. Demy 8vo. 469 pp. 205 Illus. 1890. Baird, Philadelphia, $4.

STEAM ENGINE INDICATOR AND Indicator Diagrams, ed. by W. W. Beaumont. 190 pp. 116 Illus. *Electrician*, 3s. 6d.

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TREATISE ON THE RICHARDS Steam Engine Indicator, by C. T. Porter. Demy 8vo. 6th ed. 286 pp. 1902. Spon, 9s.

TWENTY YEARS WITH THE INDICATOR, by T. Pray, Jun. Royal 8vo. Illus. Van Nostrand, N.Y., $2.50.

Injectors.

INJECTORS: Theory, Construction and Working, by W. W. F. Pullen. 2nd ed. 187 pp. 111 Illus. 1900. Technical Pub. Co., Manchester, 3s. 6d.

PRACTICE AND THEORY OF THE Injector, by S. L. Kneass (U.S.A.). Demy 8vo. 132 pp. 37 Illus. 1894. Chapman, 6s. 6d.

STEAM INJECTORS: Their Theory and Use, trans. from French of M. L. Pochet (U.S.A.). 18mo. 79 pp. Illus. Spon, 2s.

(**Steam Engine.** See below.)

(**Iron Analysis.** See section 41.)

Iron and Steel.

IRON AND STEEL, by R. H. Thurston (U.S.A.). 8vo. 6th ed. Chapman, 15s.

IRON AND STEEL, by C. Hoare. 32mo. 9th ed. Lockwood, 6s.

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IRON-PLATE WEIGHT TABLES, for Iron Shipbuilders, Engineers and Iron Merchants, by A. H. Burlinson and W. H. Simpson. 4to. 1886. Lockwood, 25s.

MANUFACTURE AND PROPERTIES of Iron and Steel by H. H. Campbell (U.S.A.). Royal 8vo. 862 pp. Illus. 1903. *Engineering and Mining Journal*, 21s.

ROWNSON'S IRON MERCHANTS' Tables and Memoranda, Weights and Measures, etc. Obl. 32mo. 86 pp. 1898. Spon, 3s. 6d.

STEEL AND IRON, for Students, by W. H. Greenwood. Cr. 8vo. 536 pp. 97 Illus. 1900. Cassell, 5s.

TABLES OF THE WEIGHT OF IRON and Steel, by C. H. Jordan. 32mo. 5th ed. 580 pp. Spon, 7s. 6d.

(**Steel.** See **Metallurgy**, sect. 41.)

Ironfounding.

AMERICAN FOUNDRY PRACTICE, by T. D. West (U.S.A.). Cr. 8vo. 10th ed. 408 pp. Illus. 1900. Chapman, 10s. 6d.

BLAST FURNACE DIAGRAM, for Schools, 36 in. × 26 in., Sectional View showing Blast Pipes, Molten Iron, etc. Bacon, 4s. 6d.

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FOUNDRY NOMENCLATURE: Moulders Dictionary, by J. F. Buchanan. Cr. 8vo. 234 pp. 1903. Spon, 5s.

IRON FOUNDER, by S. Bolland (U.S.A.). Cr. 8vo. 382 pp. 305 Illus. 1893. 10s. 6d. Supplement. Cr. 8vo. 392 pp. 208 Illus. 10s. 6d. Chapman.

MODERN FOUNDRY PRACTICE, by J. Sharp. Demy 8vo. 759 pp. 272 Illus. 12 Plates. 1900. Spon, 21s.

MODERN IRON FOUNDRY PRACTICE, by G. R. Bale. Part I. Foundry Equipment and Materials. Cr. 8vo. 396 pp. 208 Illus. 1902. Technical Pub. Co., Manchester, 5s.

MODERN MOULDING AND PATTERN-MAKING, by J. P. Mullin. 12mo. 165 Illus. Van Nostrand, N.Y., $2.50.

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MOULDER'S TEXT-BOOK, by T. D. West (U.S.A.). 8th ed. 461 pp. 146 Illus. 1901. Chapman, 10s. 6d.

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PRACTICAL IRONFOUNDING, by J. Horner. Cr. 8vo. 3rd ed. 220 pp. 109 Illus. 1901. Whittaker, 4s.

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MANUAL OF PRACTICAL INSTRUCTION in the Art of Brass Repoussé, for Amateurs, by Gawthorp. Cr. 8vo. 32 Illus. Batsford, 1s.

METAL COLOURING AND BRONZING, by A. H. Hiorns. Gl. 8vo. 336 pp. 1892. Macmillan, 5s.

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(**Kitchen Boilers.** See **Boilers,** above.)

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CUTTING TOOLS WORKED BY HAND and Machine, by R. H. Smith. Cr. 8vo. 240 pp. 51 Illus. 14 Plates. 1896. Cassell, 3s. 6d.

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PRACTICAL TOOL-MAKER AND DESIGNER, by H. S. Wilson. 8vo. 226 pp. 189 Illus. 1898. Baird, Philadelphia, $2.50.

SPEED LATHE, by A. G. Compton and J. H. de Groodt (U.S.A.). 12mo. 100 Illus. 1899. Chapman, 6s. 6d.

TURNING LATHES, for Technical Schools, ed. by J. Lukin, B.A. Cr. 8vo. 5th ed. 228 pp. 225 Illus. 1899. Simpkin, 3s.

(**Lead.** See section 41.)

Locomotives, Traction Engines.

BRITISH LOCOMOTIVES: History, Construction and Modern Development, by C. J. B. Cooke. Cr. 8vo. 3rd ed. 440 pp. 150 Illus. 1900. Whittaker, 7s. 6d.

BROKE DOWN: What Should I Do? for Locomotive Engineers and Firemen, by S. A. Alexander. 12mo. Van Nostrand, N.Y., $1.50.

CATECHISM OF THE LOCOMOTIVE, by W. N. Forney (U.S.A.). Demy 8vo. 2nd ed. 707 pp. 487 Illus. 1897. Van Nostrand, N.Y., $3.50.

COMPOUND LOCOMOTIVES, by A. T. Woods (U.S.A.). Demy 8vo. 2nd ed. 330 pp. 166 Illus. 1893. Kegan Paul, 12s. 6d.

CONSTRUCTION OF THE MODERN Locomotive, by G. Hughes. Demy 8vo. 261 pp. 309 Illus. 1894. Spon, 9s.

ENGLISH AND AMERICAN STEAM Carriages and Traction Engines, by W. Fletcher. Royal 8vo. 428 pp. 250 Illus. 1904. Longmans.

HANDBOOK FOR LOCOMOTIVE Engineers and Machinists, by S. Norris. 12mo. 302 pp. Illus. Baird, Philadelphia, $1.50.

HANDBOOK OF THE LOCOMOTIVE, by S. Roper. 12mo. 12th ed. 324 pp. Baird, Philadelphia, $2.50.

HOW TO BECOME A LOCOMOTIVE Engineer, by R. McDonnell. Cr. 8vo. 62 pp. 1899. Whittaker, 1s. limp.

LOCOMOTIVE BREAKDOWNS, AND Their Remedies, by G. L. Fowler (U.S.A.). Cr. 8vo. 244 pp. 1903. Spon, 6s. 6d.

LOCOMOTIVE CATECHISM, by Grimshaw. 19th ed. 200 Illus. 12 Plates. Henley & Co., N.Y., $2.

LOCOMOTIVE ENGINE DRIVING, by M. Reynolds. Cr. 8vo. 11th ed. 1902. Lockwood, 4s. 6d.

LOCOMOTIVE ENGINE RUNNING and Management, by A. Sinclair (U.S.A.). Cr. 8vo. 20th ed. Spon, 8s. 6d.

LOCOMOTIVE ENGINE AND ITS Development: Popular Treatise, by C. E. Stretton. 6th ed. 282 pp. 1903. Lockwood, 4s. 6d.

LOCOMOTIVE ENGINEMAN'S AND Fireman's Guide, by M. G. Vaughan, 16mo. 7th ed. 80 pp. 1900. Locomotive Pub. Co., 1s.

LOCOMOTIVE: ITS FAILURES AND Remedies, for Drivers, by T. Pearce, 7 Dunstall Road, Wolverhampton. 9th ed. 102 pp. 2s. 9d.

LOCOMOTIVE MECHANISM AND Engineering, by H. C. Reagan (U.S.A.). Cr. 8vo. 3rd ed. 420 pp. 225 Illus. 1898. Chapman, 8s. 6d.

LOCOMOTIVE RUNNING AND MANAGEMENT, by A. Sinclair (U.S.A.). 12mo. Illus. Chapman, 8s. 6d.

LOCOMOTIVES: SIMPLE, COMPOUND and Electric, by H. C. Reagan. 12mo. Illus. 1902. Wiley, N.Y., $2.50.

LOCOMOTIVE UP-TO-DATE: Simple and Compound, by C. McShane (U.S.A.). Royal 8vo. 736 pp. 380 Illus. Locomotive Pub. Co., 10s. 6d.

MANUAL OF LOCOMOTIVE ENGINEERING, by W. F. Pettigrew and A. F. Ravenshear. Large 8vo. 2nd ed. 430 pp. 287 Illus. 9 Plates. 1901. Griffin, 21s.

MODEL LOCOMOTIVE ENGINEER, Fireman and Engine Boy, by M. Reynolds. Cr. 8vo. 2nd ed. 256 pp. 71 Illus. Lockwood, 4s. 6d.

MODERN AMERICAN LOCOMOTIVE Engines: Design, Construction and Management, by E. Edwards. Cr. 8vo. 383 pp. 78 Illus. Baird, Philadelphia, $2.

MODERN LOCOMOTIVE CONSTRUCTION, by J. G. A. Meyer (U.S.A.). 4to. 658 pp. 1025 Illus. 1894. Chapman, 42s.

MODERN LOCOMOTIVES: Specifications of American and European and Electric Locos. (U.S.A.). Folio. 406 pp. 300 Illus. Spon, 30s.

NEW SYSTEM OF HEAVY GOODS' Transport on Common Roads, by B. J. Diplock. Demy 8vo. 116 pp. 27 Illus. 1902. Longmans.

READY HELP FOR LOCOMOTIVE Engineers, by N. Gardenier. Sq. 16mo. D. McKay, Philadelphia, $1.

(**Railways.** See section 57.)

Machine Construction.

ADVANCED MACHINE CONSTRUCTION, for Students, by E. Tomkins. 2 vols. Vol. I. Text. Gl. 8vo. 2nd ed. 368 pp. 319 Illus. 3s. 6d. Vol. II. 4to. 48 Plates. 7s. Collins.

BOSTON MACHINIST, by W. Fitzgerald (U.S.A.). 16mo. Chapman, 4s. 6d.

COMPLETE PRACTICAL MACHINIST, by J. Rose (U.S.A.). Large cr. 8vo. 19th ed. 504 pp. 395 Illus. 1900. Low, 12s. 6d.

DICTIONARY OF MECHANICAL Movements, Powers, Devices and Appliances, by G. D. Hiscox. Large 8vo. 3rd ed. 400 pp. 1649 Illus. Henley & Co., N.Y., $3.

ELEMENTS OF MACHINE CONSTRUCTION and Drawing, by H. J. Spooner and E. G. Davey. Folio. 2nd ed. 50 Plates. 1898. Cassell, 10s. 6d.

GENERAL MACHINIST. Large cr. 8vo. 204 pp. 75 Illus. 4 Plates. 1891. Ward, Lock, 5s.

MACHINE CONSTRUCTION AND Drawing (Elementary), by H. Adams. Cr. 8vo. 116 pp. 100 Illus. 1894. Chapman, 2s. 6d.

MACHINE CONSTRUCTION AND Drawing for Elementary Students, by E. Tomkins. Cr. 8vo. 107 pp. 223 Illus. Collins, 1s.

MACHINE CONSTRUCTION AND Drawing, for Advanced Students, by H. Adams. Cr. 8vo. 72 pp. 81 Illus. 1895. Chapman, 2s. 6d.

MACHINE SHOP COMPANION, by W. Bentley. Fcp. 8vo. 36 Illus. Chapman, 1s.

MACHINISTS' AND DRAFTSMEN'S Handbook, by P. Lobben. 8vo. Illus. 1900. Van Nostrand, N.Y., $2.50.

MACHINIST'S AND ENGINEER'S Pocket Manual, ed. by D. B. Dixon. 16mo. 425 pp. Laird & Lee, Chicago, $1.

MACHINIST'S AND STEAM ENGINEER'S Practical Calculator, by D. B. Dixon (U.S.A.). Royal 32mo. 2nd ed. Spon, 9s.

Machine Construction, *continued.*

MANUAL OF MACHINERY AND Millwork, by W. J. M. Rankine, revised by W. J. Miller. Cr. 8vo. 7th ed. 601 pp. 300 Illus. 1893. Griffin, 12s. 6d.

MODERN MACHINIST, by Usher. Cr. 8vo. 3rd ed. 322 pp. 257 Illus. Henley & Co., N.Y., $2.50.

TEXT-BOOK OF MACHINE CONSTRUCTION and Mechanical Drawing, by Cryer and Jordan. 8th ed. 78 Plates. J. Heywood, 3s.

(**Lathes, Tools.** See above. **Mechanics.** See below.)

Machine Design.

CONSTRUCTOR: HANDBOOK FOR Machine Design, trans. from German of F. Reuleaux. 4to. 312 pp. 1894. D. Nutt, 31s. 6d.

ELEMENTS OF MACHINE DESIGN, for Students, by J. F. Klein. 8vo. (U.S.A.). 2nd ed. Spon, 25s.

ELEMENTS OF MACHINE DESIGN, by W. C. Unwin. Fcp. 8vo. 2 vols. Vol. I. Principles and Transmissive Machinery. 555 pp. 345 Illus. 1901. 6s. Vol. II. Engine Details. 291 pp. 174 Illus. 1900. 4s. 6d. Longmans.

ENGINEERING HAND-SKETCHING Machine Construction, by T. Jackson and P. Bentley. Demy 8vo. 3rd ed. Pt. I. 18 Plates. 1898. Pt. II. 12 Plates. 1899. Chapman, 1s.

ENGINEER'S SKETCH-BOOK OF Mechanical Movements, Devices, etc., by T. W. Barber. Cr. 8vo. 4th ed. 348 pp. 2603 Illus. 1902. Spon, 10s. 6d.

GRAPHIC METHODS OF ENGINE Design, by A. H. Barker, B.A., B.Sc. Cr. 8vo. 210 pp. 90 Illus. 1897. Technical Pub. Co., Manchester, 3s. 6d.

MACHINE DESIGN. Pt. I., Fastenings, by W. L. Cathcart. 290 pp. 119 Illus. 8vo. 1903. Van Nostrand, N.Y., $3.

PROBLEMS IN MACHINE DESIGN, for Honours Students, by C. H. Innes. Cr. 8vo. 2nd ed. 258 pp. 201 Illus. 1899. Technical Pub. Co., Manchester, 4s. 6d.

ENGINE DESIGN, by J. M. Whitham (U.S.A.). 8vo. 2nd ed. Illus. Chapman, 21s.

Machine Drawing.

DRAUGHTSMAN'S HANDBOOK OF Plan and Map Drawing, by G. G. André. Cr. 4to. 87 Illus. 34 Plates. Spon, 9s.

ENGINEERING, DRAWING AND Design, for Students, by S. H. Wells. Large cr. 8vo. 3rd ed. Vol. I. Practical Geometry. 149 pp. 101 Illus. 1900. 3s. Vol. II. Machine and Engine Drawing. 3rd ed. 321 pp. 1900. 4s. 6d. Griffin.

ENGINEER'S AND DRAUGHTSMAN'S Data Book, for Workshop and Office Use. Cr. 8vo. 3rd ed. Spon, 3s.

ENGINEER DRAUGHTSMEN'S WORK, for Beginners. Sq. cr. 8vo. 2nd ed. 100 pp. 80 Illus. 1898. Whittaker, 1s. 6d.

LETTERING FOR DRAUGHTSMEN, Engineers and Students, by C. W. Reinhardt. Obl. 8vo. Van Nostrand, N.Y., $1.

LETTERING OF WORKING DRAWINGS, by J. C. L. Fish. Obl. 4to. 13 Plates. Van Nostrand, N.Y., $1.

MACHINE DRAWING, by G. C. Anthony. Obl. 8vo. 56 pp. Text. 18 Plates. 1899. Isbister, 6s.

MACHINE DRAWING AND DESIGN, for Engineering Students, by W. Ripper. Royal 4to. 133 pp. 100 Illus. 55 Plates. 1896. Rivingtons, 12s. 6d.

MACHINE DRAWING FOR ENGINEERING Students, by T. and T. G. Jones. Small 4to. Book I. 7th ed. 49 Plates. 1903. 4s. Book II. Part 1. Machine Tools. 25 Plates. 1898. 2s. Book II. Part 2. 42 Plates. 1901. 3s. J. Heywood.

MANUAL OF MACHINE DRAWING and Design, by D. A. Low and A. W. Bevis. Demy 8vo. New ed. 375 pp. 753 Illus. 1901. Longmans, 7s. 6d.

MECHANICAL DRAWING, by C. W. McCord (U.S.A.). 4to. 100 pp. 68 Illus. 1893. Chapman, 17s.

MECHANICAL DRAWING SELF-TAUGHT, by J. Rose. 8vo. 313 pp. 330 Illus. Baird, Philadelphia, $4.

PRACTICAL DRAUGHTSMAN'S BOOK and Machinist's Drawing Com-

panion, from French of M. Armenaud. 4to. 50 Illus. 50 Plates. Baird, Philadelphia, $6.

PRACTICAL DRAUGHTSMAN'S WORK, by P. N. Hasluck. Cr. 8vo. 160 pp. 1901. Cassell, 2s.

SKETCHES OF ENGINE AND Machine Details, by W. Bentley. Large cr. 8vo. 2nd ed. 90 pp. Illus. 1900. Chapman & Hall, 2s. 6d.

TECHNIC OF MECHANICAL DRAFTING, by C. W. Reinhardt. 36 pp. 62 Illus. 10 Plates. 1900. *Engineering and Mining Journal*, N.Y., $1.

WORKMAN'S MANUAL OF ENGINEERING Drawing, by J. Maxton. 7th ed. 300 Plates. Lockwood, 3s. 6d.

(See also **Mechanical Drawing**, p. 93.)

Marine Engineering.

AMERICAN MARINE ENGINEER, by E. Edwards. 440 pp. 85 Illus. Baird, Philadelphia, $2.50.

ARITHMETICAL GUIDE FOR MARINE Engineers, by J. Tod. Demy 8vo. 668 pp. 1903. J. Brown, 6s.

BERGEN'S MARINE ENGINEER, for Board of Trade Examinations for Certificates as 1st and 2nd Class Engineers, by T. Southern. 10th ed. 702 pp. 1901. Simpkin, 14s.

BREAKDOWNS AT SEA AND HOW to Repair Them, by A. R. Leask. Cr. 8vo. 4th ed. 270 pp. 99 Illus. 1901. Simpkin, Marshall, 5s.

CATECHISM OF THE MARINE STEAM Engine, by E. Edwards. 12mo. 5th ed. 414 pp. 63 Illus. Baird, Philadelphia, $2.

DRAWING AND DESIGNING FOR Marine Engineers, by C. W. Roberts. Demy 8vo. 186 pp. 27 Illus. 21 Plates. Whittaker, 6s.

ELEMENTARY LESSONS IN STEAM Machinery and the Marine Steam Engine, for Junior Students, by J. Langmaid and H. Gaisford. 8vo. New ed. Macmillan, 6s.

ELEMENTARY MARINE ENGINEERING, for Apprentices, by J. S. Brewer. 12mo. 3rd ed. 144 pp. 1896. Lockwood, 1s. 6d.

ELEMENTARY QUESTIONS REQUIRED at Board of Trade Examinations of Marine Engineers, by W. H. Thorn. Cr. 8vo. 186 pp. 1901. Reed, Sunderland, 3s.

ENGINEERS' HANDBOOK, Reed's, to the Board of Trade Examinations for Certificates of Competency, by W. H. Thorn. Demy 8vo. 18th ed. Vol. I. 700 pp. 358 Diagrams. 37 Plates. 7s. 6d. With Questions. 170 pp. 5s. Key. Demy 8vo. 383 pp. 1904. 7s. 6d. Simpkin.

ENGINE-ROOM PRACTICE, by J. G. Liversidge. Large cr. 8vo. 292 pp. 66 Illus. 1899. Griffin, 6s.

HANDBOOK OF LAND AND MARINE Engines, by S. Roper. Cr. 8vo. 7th ed. 598 pp. Baird, Philadelphia, $3.50.

HOW TO BUILD A THREE HORSE Power Launch Engine, by E. W. Roberts. 4to. 1902. Lockwood, 12s. 6d.

MANUAL OF MARINE ENGINEERING, by A. E. Seaton. Demy 8vo. 15th ed. 732 pp. 1903. Griffin, 21s.

MARINE ENGINEERS' BOARD OF Trade Examinations: New Elementary Questions, with Answers, by J. Tod and W. C. M'Gibbon. 244 pp. 1901. Simpkin, 4s.

MARINE ENGINEERS' DRAWING Book, for Board of Trade Examinations, by W. C. M'Gibbon. Obl. folio. 1902. Simpkin, 2s. 6d.

MARINE ENGINEERS' GUIDE, for Board of Trade Examinations, by A. C. and E. W. I. Wannan. Large cr. 8vo. 2nd ed. 486 pp. Illus. 1901. Lockwood, 10s. 6d.

MARINE ENGINEERS' NEW AND Revised Elementary Questions by the Board of Trade, with Illustrated Answers, by A. C. Wannan. Cr. 8vo. 150 pp. 81 Illus. 1901. Whittaker, 3s. 6d.

MARINE ENGINEERS: Their Qualifications and Duties, by E. G. Constantine. Cr. 8vo. 312 pp. 77 Illus. 1897. Technical Pub. Co., Manchester, 5s.

MARINE ENGINES AND BOILERS, for Students, by G. C. V. Holmes. Large cr. 8vo. 134 pp. 69 Illus. 1893. Chapman, 3s.

MARINE ENGINES AND STEAM Vessels, by R. Murray and G. Carlisle. Cr. 8vo. 8th ed. Lockwood, 4s. 6d.

Marine Engineering, *continued.*

MARINE MOTORS AND MOTOR Launches, by E. W. Roberts, for Yachtsmen. 16mo. Rudder Pub. Co., N.Y., $1.

MARINE PROPELLERS, by S. W. Barnaby. Demy 8vo. 4th ed. 187 pp. 61 Illus. 6 Plates. 1900. Spon, 10s. 6d.

MARINE STEAM ENGINE: Its Construction, etc., by C. Busley. Vol. I. 4to. 2 Parts. Text and 63 Plates. 1902. Grevel, 40s.

MARINE STEAM ENGINE, for Students and Officers, by R. Sennett and H. J. Oram. Royal 8vo. 6th ed. 532 pp. 414 Illus. 1902. Longmans, 21s.

MARINE STOKERS' GUIDE TO THE Firing and Care of Steam Boilers, by "Vulcan". Cr. 8vo. 126 pp. 25 Illus. 1903. Simpkin, 2s.

MODERN AMERICAN MARINE Engines, Boilers and Screw Propellers: Their Design and Construction, by E. Edwards. 4to. 146 pp. 30 Plates. Baird, Philadelphia, $5.

MODERN MARINE COMPOUND Engine Diagram, for Schools, 26 in. × 36 in. Bacon, 4s. 6d.

MODERN MARINE ENGINEERING Applied to Paddle and Screw Propulsion, by N. P. Burgh. 403 pp. 259 Illus. 36 Coloured Plates. Van Nostrand, N.Y., $10.

MODERN WORKSHOP PRACTICE AS Applied to Marine Engines, Floating Docks, Dredging Machines, etc., by J. G. Winton. 4th ed. Illus. Lockwood, 3s. 6d.

POCKET-BOOK OF MARINE ENGINEERING: Rules and Tables for Marine Engineers, Naval Architects, etc., by A. E. Seaton. 12mo. 7th ed. 1903. Griffin, 8s. 6d.

PRACTICAL ADVICE FOR MARINE Engineers, by C. W. Roberts. Cr. 8vo. 152 pp. 64 Illus. Whittaker, 2s. 6d.

PRACTICAL MARINE ENGINEERING for Marine Engineers and Students, by W. F. Durand (U.S.A.). Large 8vo. 720 pp. 1902. Spon, 21s.

REED'S USEFUL HINTS TO SEAGOING Engineers: How to Repair, etc. Cr. 8vo. 4th ed. 312 pp. 50 Diagrams. 8 Plates. 1903. Simpkin, 3s. 6d.

RESISTANCE AND PROPULSION OF Ships, by W. F. Durand (U.S.A.). Royal 8vo. 431 pp. 116 Illus. 1898. Chapman, 21s.

RESISTANCE OF SHIPS AND SCREW Propulsion, by D. W. Taylor. Med. 8vo. 240 pp. 73 Illus. 1893. Whittaker, 15s.

SCREW PROPELLERS AND MARINE Propulsion, by J. McKim Chase (U.S.A.). Demy 8vo. 230 pp. 17 Illus. 31 Plates. 1895. Chapman, 12s. 6d.

STEAM AND THE MARINE STEAM Engine, by J. Yeo. Med. 8vo. Illus. Macmillan, 7s. 6d.

STEAMSHIPS AND THEIR MACHINERY from First to Last, by J. W. C. Haldane. Demy 8vo. 532 pp. Illus. 1893. Spon, 15s.

STEAM YACHTS AND LAUNCHES: Their Machinery and Management, by C. P. Kunhardt (U.S.A.). 8vo. 2nd ed. Spon, 15s.

TEXT-BOOK OF MARINE ENGINEERING, with Supplement, Belleville Boiler, etc., by A. E. Tompkins. Demy 8vo. 282 pp. 142 Illus. 1898. Simpkin, 7s. 6d.

TEXT-BOOK ON MARINE MOTORS, by E. du Boulay. Imp. 8vo. 148 pp. 90 Illus. 1902. *Yachtsman*, 10s. 6d.

TRIPLE AND QUADRUPLE EXPANSION Engines and Boilers, and their Management, by A. R. Leask. Cr. 8vo. 4th ed. 306 pp. 74 Illus. 1902. Simpkin, 5s.

VERBAL NOTES AND SKETCHES for Marine Engineers, by J. W. Sothern. Demy 8vo. 3rd ed. 200 pp. 1902. Whittaker, 4s. 6d.

(**Shipbuilding.** See below. **Nautical Books.** See section 46.)

Materials in Engineering.

CONSTRUCTIONAL IRON AND STEEL Work, for Buildings, by F. Campin. 12mo. 286 pp. 1896. Lockwood, 3s. 6d.

ELASTICITY AND RESISTANCE OF Materials of Engineering, by W. H. Burr (U.S.A.). 5th ed. 760 pp. Chapman, 21s.

ENGINEERING CONSTRUCTION IN Iron, Steel and Timber, by W. H. Warren. Med. 8vo. 375 pp. 375 Diagrams. 13 Folding Plates. 1894. Longmans, 16s.

INSPECTION OF THE MATERIALS AND Workmanship Employed in Construction, by A. T. Byrne (U.S.A.). 16mo. 2nd ed 539 pp. 1902. Chapman, 12s. 6d.

MATERIALS OF CONSTRUCTION, by J. B. Johnson (U.S.A.). Large 8vo. 650 Illus. 11 Plates. 1897. Chapman, 25s.

MATERIALS OF ENGINEERING, by R. H. Thurston (U.S.A.). 3 vols. Demy 8vo. Vol. I. Non-metallic Materials of Engineering (Stone, Timber, Fuel, Lubricants, etc.). 4th ed. 364 pp. 78 Illus. 1893. 8s. 6d. Vol. II. Iron and Steel. 7th ed. 714 pp. 138 Illus. 1898. 15s. Vol. III. Brasses, Bronzes and other Alloys. 2nd ed. 575 pp. 40 Illus. 1893. 10s. 6d. Chapman.

MECHANICAL ENGINEERING MATERIALS: Their Properties, Treatment and Construction, by E. C. R. Marks. Cr. 8vo. 52 pp. 43 Illus. 1893. Technical Pub. Co., Manchester, 1s. 6d.

PRACTICAL TREATISE ON STRENGTH of Materials, including their Elasticity and Resistance to Impact, by T. Box. Cr. 8vo. 4th ed. 538 pp. 1902. Spon, 12s. 6d.

STRENGTH OF MATERIALS, by W. Kent (U.S.A.). 18mo. 138 pp. Spon, 2s.

STRENGTH OF MATERIALS, by J. A. Ewing. Royal 8vo. 2nd ed. 260 pp. 1903. C. J. Clay, 12s.

STRENGTH OF MATERIALS: Elementary Text-book for Manual Training Schools, by M. Merriman (U.S.A.). 12mo. 2nd ed. 1898. Chapman, 4s. 6d.

STRENGTH OF MATERIALS AND Structures, by Sir J. Anderson. Fcp. 8vo. 12th ed. 307 pp. 66 Illus. 1897. Longmans, 3s. 6d.

TESTING AND STRENGTH OF MATERIALS of Construction, by W. C. Popplewell, M.Sc. Demy 8vo. 404 pp. 193 Illus. 1901. Scientific Pub. Co., Manchester, 10s. 6d.

TESTING OF MATERIALS OF CONSTRUCTION, for Engineering Laboratories, by W. C. Unwin. Demy 8vo. 2nd ed. 455 pp. 188 Illus. 5 Plates. 1899. Longmans, 16s.

THEORY OF STRUCTURES AND Strength of Materials, by H. T. Bovey, M.A. (U.S.A.). Royal 8vo. 2nd ed. 818 pp. 505 Illus. Chapman, 31s. 6d.

TREATISE ON THE STRENGTH OF Materials, by P. Barlow; ed. by W. Humber. Demy 8vo. 2nd ed. 400 pp. 19 Plates. Lockwood, 18s.

(See also **Architecture**, section 3.)

Mechanical Drawing.

DESCRIPTIVE TREATISE ON MATHEMATICAL Drawing Instruments: Their Construction, Use and Qualities, with Hints on Drawing and Colouring, by W. F. Stanley. Cr. 8vo. 7th ed. Spon, 5s.

DRAWING FOR MACHINISTS AND Engineers, by E. A. Davidson. 12mo. 142 pp. 47 Illus. 1901. Cassell, 4s. 6d.

ELEMENTARY TREATISE ON ORTHOGRAPHIC Projection: New Method of Teaching Mechanical and Engineering Drawing, by W. Binns. 8vo. 12th ed. Spon, 9s.

FIRST COURSE IN MECHANICAL Drawing (Tracing), for Technical Schools, by G. Halliday. Obl. 4to. 5th ed. Spon, 2s.

MECHANICAL DRAWING, by W. Minifie. 8vo. 200 Illus. Van Nostrand, N.Y., $4.

PRACTICAL COURSE IN MECHANICAL Drawing, by W. Fox and C. W. Thomas. 12mo. 2nd ed. Van Nostrand, N.Y., $1.25.

PRACTICAL GEOMETRY FOR ARCHITECTS and Engineers, by E. W. Tarn, M.A. 8vo. Lockwood, 9s.

SECOND COURSE OF ORTHOGRAPHIC Projection: by W. Binns. 8vo. 4th ed. Spon, 10s. 6d.

(See also **Machine Drawing**, p. 90.)

Mechanical Engineering.

APPLEBY'S HANDBOOKS OF MACHINERY. 8vo. 6 sections. 3s. 6d. each. Sec. I. Prime Movers, Steam, Gas and Air Engines, Boilers, etc. Sec. II. Hoisting Machinery, Winding Engines, Hydraulic, Steam,

Mechanical Engineering, *continued.*

Electrical and Hand Cranes, Winches, etc. Sec III. Pumping Machinery, Pumping Engines and Pumps. Sec. IV. Machine Tools for Working Metals, Wood, etc. Sec. V. Contractor's Plant and Railway Materials. Sec. VI. Mining, Colonial and Manufacturing Machinery for Ores, Corn, Rice, etc. Spon.

DIAGRAMS OF MACHINERY, 3 ft. × 2 ft., Bacon, 4s. 6d. each.

ENGINEERING NOTES, by F. Robertson. Demy 8vo. 409 pp. 1873. Spon, 12s. 6d.

ENGINEER'S AND MILLWRIGHT'S Assistant, by W. Templeton. 18mo. 8th ed. Lockwood, 2s. 6d.

EVAPORATING, CONDENSING AND Cooling Apparatus: Explanations, Formulæ and Tables for Use in Practice, by E. Hausbrand; trans. by A. C. Wright, M.A. (Oxon.), B.Sc. (Lond.). Demy 8vo. 400 pp. 21 Illus. 76 Tables. 1903. Scott, Greenwood, 10s. 6d.

FOWLER'S MECHANICAL ENGINEERS' Pocket-book. Pott 8vo. 387 pp. Illus. 1901. Scientific Pub. Co., Manchester, 1s. 6d.

GOVERNORS AND GOVERNING Mechanism, by H. R. Hall. Cr. 8vo. 128 pp. 1903. Technical Pub. Co., Manchester, 2s. 6d.

GRAPHICS, OR THE ART OF CALCULATION by Drawing Lines, Applied to Mechanical Engineering, by R. H. Smith. Part I. with Atlas of 29 Plates. Demy 8vo. 257 pp. 1889. Longmans, 15s.

HANDBOOK FOR MECHANICAL Engineers, by H. Adams. Cr. 8vo. 4th ed. 398 pp. 1897. Spon, 7s. 6d.

HANDBOOK ON ENGINEERING, by H. C. Tulley. 12mo. 2nd ed. 800 pp. 300 Illus. 1902. H. C. Tully & Co., St. Louis, $3.50.

MECHANICAL ENGINEERING, for Students, by F. Campin. 3rd ed. Lockwood, 2s. 6d.

MECHANICAL ENGINEERING OF Power Plants, by F. R. Hutton (U.S.A.). Demy 8vo. 725 pp. 512 Illus. 1897. Chapman, 21s.

MECHANICAL ENGINEER'S REFERENCE Book, by N. Foley. Part I. General Engineering Data. Part II. Boiler Construction. Folio. 2nd ed. 51 Plates. Lockwood, 63s.

MECHANICAL ENGINEER'S REFERENCE Book, by H. H. Suplee. 12mo. 1904. Griffin, 18s.

MECHANICAL MOVEMENTS, Powers, Devices and Appliances Used in Constructive and Operative Machinery and Mechanical Arts, by G. D. Hiscox. Demy 8vo. 2nd ed. 404 pp. 1800 Illus. 1903. Low, 12s. 6d.

PRACTICAL ENGINEER'S HANDBOOK, by W. S. Hutton. Royal 8vo. 6th ed. 558 pp. 420 Illus. 1902. Lockwood, 18s.

PRINCIPLES OF FITTING, for Engineer Students, by J. Horner. Sq. cr. 8vo. 2nd ed. 324 pp. 250 Illus. Whittaker, 5s.

REPAIR AND MAINTENANCE OF Machinery, by T. W. Barber. 8vo. 400 Illus. Spon, 10s. 6d.

STEVENS' MECHANICAL CATECHISM, 12mo. 336 pp. 250 Illus. Laird & Lee, Chicago, $1.

TEXT-BOOK OF MECHANICAL ENGINEERING, by W. J. Lineham. Demy 8vo. 7th ed. Part I. Workshop Practice. Part II. Theory and Examples. 1066 pp. 901 Illus. 1904. Chapman & Hall, 12s. 6d.

(See **Engineering Workshops** and **Machine Construction** above, and **Rules, Pocket-Books** below.)

Mechanics.

APPLICATION OF GRAPHIC METHODS to the Design of Structures, by W. W. F. Pullen. Cr. 8vo. 321 pp. 143 Illus. 1896. Technical Pub. Co., Manchester, 6s.

APPLIED MECHANICS: Elementary Introduction to the Theory of Structures and Machines, by J. H. Cotterill. 8vo. 5th ed. 645 pp. 210 Illus. 1900. Macmillan, 18s.

APPLIED MECHANICS: Advanced Text-book, by A. Jamieson. Vol. I. Principle of Work, Gearing. 3rd ed. 420 pp. Illus. 7s. 6d. Vol. II. Motion, Strength of Materials, Hydraulics. Large cr. 8vo. 2nd ed. 483 pp. Illus. 1900. 8s. 6d. Griffin.

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NEW ENGINEER'S HANDY-BOOK, for Steam Engineers and Electricians, by S. Roper. 12mo. 15th ed. 900 pp. 325 Illus. D. McKay, Philadelphia, $3.50.

NEW QUESTIONS AND ANSWERS for Steam Engineers and Electricians, by S. Roper; re-written by E. R. Keller and C. W. Pike. 12mo. 6th ed. 1900. D. McKay, Philadelphia, $2.

PORTABLE ENGINE: Its Construction and Management, by W. D. Wansbrough. Cr. 8vo. 166 pp. 90 Illus. 1887. Lockwood, 3s. 6d.

PRACTICAL EXAMINATOR ON Steam and the Steam Engine, by W. Templeton. 12mo. 149 pp. Baird, Philadelphia, $1.

PRACTICAL MANAGEMENT OF Engines and Boilers, by W. B. le Van (U.S.A.). Cr. 8vo. 337 pp. 57 Illus. 1897. Kegan Paul, 6s.

PRACTICAL STEAM ENGINEER'S Guide, by E. Edwards. Cr. 8vo. 3rd ed. 420 pp. 119 Illus. Baird, Philadelphia, $2.50.

PRACTICAL TREATISE ON THE Steam Engine, by A. Rigg. Demy 4to. 2nd ed. 380 pp. 103 Plates. 1894. Spon, 25s.

QUESTIONS AND ANSWERS FOR Stationary and Marine Engineers and Electricians, by S. Roper. 16mo. 6th ed. 306 pp. Baird, Philadelphia, $2.

SMALL ENGINES AND BOILERS, by E. P. WATSON. Cr. 8vo. 108 pp. 33 Illus. 1899. Van Nostrand, N.Y., $1.25.

STATIONARY ENGINE DRIVING, for Engineers in Charge, by M. Reynolds. Cr. 8vo. 6th ed. 1902. Lockwood, 4s. 6d.

STATIONARY STEAM ENGINES, Especially Adapted to Electric Lighting, by R. H. Thurston (U.S.A.). 12mo. 1899. Chapman, 6s. 6d.

STEAM (Elementary Scientific Manual), by W. Ripper. Cr. 8vo. 222 pp. 142 Illus. 1899. Longmans, 2s. 6d.

STEAM AND STEAM ENGINES, for Advanced Students, by A. Jamieson. Large cr. 8vo. 13th ed. 588 pp. 200 Illus. 1901. Griffin, 8s. 6d.

STEAM AND THE STEAM ENGINE, Elementary Manual, by A. Jamieson. Cr. 8vo. 8th ed. 306 pp. Illus. 1900. Griffin, 3s. 6d.

STEAM AND THE STEAM ENGINE, Land and Marine, for Elementary Students, by H. Evers, LL.D. Gl. 8vo. 2nd ed. 200 pp. Illus. Collins, Sons & Co., 1s. 6d.

STEAM ENGINE, by G. C. V. Holmes. Fcp. 8vo. 528 pp. 212 Illus. 1900. Longmans, 6s.

STEAM ENGINES AND GAS AND Oil Engines, for Students who have time for calculations, by J. Perry. Med. 8vo. 646 pp. 324 Illus. 1900. Macmillan, 7s. 6d.

STEAM ENGINE AND OTHER HEAT Engines, by J. A. Ewing, M.A. Demy 8vo. 2nd ed. 376 pp. Illus. 1898. Clay, 15s.

STEAM ENGINE CATECHISM, by Grimshaw. Sq. 16mo. 11th ed. 413 pp. Henley & Co., N.Y., $2.

STEAM ENGINE: THERMODYNAMIC Efficiency of Steam Engines, by J. H. Cotterill, M.A. Demy 8vo. 3rd ed. 350 pp. Illus. Spon, 15s.

STEAM ENGINEERING, for Elementary Students, by W. W. F. Pullen. Demy 8vo. 348 pp. 290 Illus. 1901. Scientific Pub. Co., Manchester, 4s.

STEAM JACKET PRACTICALLY CONSIDERED, by W. Fletcher. Cr. 8vo. 2nd ed. 230 pp. 63 Illus. 1895. Whittaker, 7s. 6d.

STEAM POWER AND MILL WORK: Modern Practice, by G. W. Sutcliffe. Cr. 8vo. 900 pp. 157 Illus. 1895. Whittaker, 21s.

STEAM TABLES AND ENGINE CONSTANTS, for Facilitating All Calculations upon Indicator Diagrams, by T. Pray (U.S.A.). Royal 8vo. Spon, 7s. 6d.

TABLES OF PROPERTIES OF SATURATED Steam and Other Vapours, by C. H. Peabody (U.S.A.). Demy 8vo. 6th ed. 38 pp. 1899. Chapman, 4s. 6d.

TEXT-BOOK ON THE STEAM ENGINE, by T. M. Goodeve, M.A. Cr. 8vo. 14th ed. 400 pp. Illus. 1898. Crosby Lockwood, 6s.

THEORY OF STEAM ENGINE, trans. from Weisbach's Mechanics, by A. J. du Bois (U.S.A.). 8vo. Chapman, 21s.

THERMODYNAMICS OF THE STEAM Engine and Other Heat Engines, by C. H. Peabody (U.S.A.). 8vo. 4th ed. 470 pp. 90 Illus. 1898. Macmillan, 21s.

TREATISE ON MODERN STEAM Engines and Boilers, by F. Colyer. 4to. 128 pp. 46 Plates. 1886. Spon, 12s. 6d.

(**Fuel, Heat, Smoke.** See above.)

(**Steel.** See section 41.)

Strains and Stresses.

APPLIED MECHANICS AND RESISTANCE of Materials: Strains on Beams, by G. Lanza (U.S.A.). 8vo. [illegible] Chapman, 31s. 6d.

AND GIRDERS: PRACTICAL Formulas for their Resistance, by P. H. Phillerick (U.S.A.). 18mo. 159 pp. Spon, 2s.

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COURSE ON THE STRESSES IN Bridges and Roof Trusses, Arched Ribs and Suspension Bridges, by W. H. Burr (U.S.A.). Demy 8vo. 9th ed. 475 pp. 1894. Chapman, 15s.

EXPANSION OF STRUCTURES BY Heat, by J. Keily. Cr. 8vo. Lockwood, 3s. 6d.

EXPERIMENTS ON FLEXURE OF Beams, Resulting in Discovery of New Laws of Failure by Buckling, by A. E. Guy. Royal 8vo. 122 pp. 1903. Lockwood, 9s.

GRAPHIC AND ANALYTIC STATICS, for Students, by R. H. Graham. 8vo. 2nd ed. Lockwood, 16s.

INTRODUCTION TO THE MATHEMATICAL Theory of the Stress and Strain of Elastic Solids, by B. Williamson, D.Sc., D.C.L. Cr. 8vo. 135 pp. Illus. 1894. Longmans, 5s.

MAXIMUM STRESSES UNDER CONCENTRATED Loads, by H. T. Eddy. 8vo. Van Nostrand, N.Y., $1.50.

NEW FORMULAS FOR THE LOADS and Deflections of Solid Beams and Girders, by W. Donaldson, M.A. 8vo. 2nd ed. Spon, 4s. 6d.

NEW METHOD OF GRAPHIC Statics, Applied in Construction of Wrought-iron Girders, by E. Olander. Small folio. Spon, 10s. 6d.

POCKET-BOOK OF CALCULATIONS in Stresses and Other Information for Engineers, etc., by E. M. George. Royal 32mo. Spon, 3s. 6d.

ROOF TRUSSES: DIAGRAMS FOR Steady Load, Snow and Wind, by C. E. Greene (U.S.A.). 8vo. Chapman, 5s. 6d.

SIMPLE PRACTICAL METHODS OF Calculating Strains on Girders, Arches and Trusses, including Sus-

pended Bridges, by E. W. Young. Demy 8vo. 132 pp. 90 Illus. 13 Plates. 1873. Macmillan, 7s. 6d.

STRAIN ON STRUCTURES OF IRONWORK, by F. W. Sheilds. 8vo. Crosby Lockwood, 5s.

STRAINS IN IRONWORK: Eight Elementary Lectures, by H. Adams. Cr. 8vo. 3rd ed. 77 pp. 1898. Spon, 5s.

STRENGTH AND PROPORTION OF Rivetted Joints, by B. B. Stoney, LL.D. 8vo. Spon, 5s.

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STRESSES AND STRAINS AND THEIR Calculation, by F. R. Farrow. Cr. 8vo. 150 pp. 95 Illus. 1900. Whittaker, 5s.

STRESSES IN FRAMED STRUCTURES, by A. J. du Bois; ed. by J. S. Deans and W. W. Crehore (U.S.A.). 4to. 10th ed. Chapman, 42s.

STRESSES IN GIRDER AND ROOF Trusses for Dead and Live Loads by Simple Multiplication, with Stress Constants for 100 Cases, by F. R. Johnson. Cr. 8vo. Spon, 6s.

TABLES AND DIAGRAMS FOR CALCULATING the Strength of Beams and Columns, by B. E. Winslow. Obl. Med. 4to. 53 pp. 19 Plates. 1901. *Engineering News*, N.Y., $2.

TEXT-BOOK ON MECHANICS OF Materials, by M. Merriman (U.S.A.). Demy 8vo. 9th ed. 368 pp. 84 Illus. 1900. Chapman, 17s.

THEORY OF STRESSES IN GIRDERS and Similar Structures, by B. B. Stoney. Med 8vo. 777 pp. 143 Illus. 5 Plates. 1886. Longmans, 36s.

TRUSSES OF WOOD AND IRON, by W. Griffiths. Obl. 8vo. Lockwood, 4s. 6d.

(See **Architectural Engineering** and **Mechanics** above.)

Testing.

ENGINE TESTS AND BOILER Efficiencies, by J. Buchetti; trans. from 3rd ed. Demy 8vo. 272 pp. 241 Illus. 1903. Constable, 10s. 6d.

EXPERIMENTAL ENGINEERING, by R. C. Carpenter (U.S.A.). Demy 8vo. 709 pp. 250 Illus. Chapman, 25s.

ILLUSTRATIONS OF DAVID KIRKALDY'S System of Mechanical Testing, by W. G. Kirkaldy. 4to. 25 Plates. Van Nostrand, N.Y., $20.

REPORT OF A SERIES OF TRIALS of Warm Blast Apparatus for Transferring Part of Heat of Escaping Flue Gases to Furnace, by J. C. Hoadley (U.S.A.). Demy 8vo. 2nd ed. 173 pp. 36 Illus. 1897. Chapman, 6s. 6d.

TESTING AND EXPERIMENTING with Engines, Boilers and Auxiliary Machinery, by W. W. F. Pullen. Demy 8vo. 654 pp. 517 Illus. 1900. Scientific Pub. Co., Manchester, 15s.

(**Tools.** See **Engineering Workshops** also **Lathes** above.)

Traverse Tables.

NEW AND COMPLETE SET OF Traverse Tables, by J. T. Boileau. 8vo. Van Nostrand, N.Y., $5.

TRAVERSE TABLES, by R. L. Gurden. Folio. 5th ed. 270 pp. 1900. Griffin, 21s.

TRAVERSE TABLES, by H. Louis, M.A., and G. W. Caunt, M.A. Demy 8vo. 1901. E. Arnold, 4s. 6d.

Tubes.

MANUFACTURE OF IRON AND Steel Tubes, by E. C. R. Marks. Cr. 8vo. 164 pp. 1903. Technical Pub. Co., Manchester, 5s.

(See also p. 97.)

Turbines.

PONCELET TURBINE AND WATER Pressure Engine and Pump, by W. Donaldson, M.A. 4to. Spon, 5s.

STEAM TURBINES, by R. M. Neilson. Royal 8vo. 2nd ed. 312 pp. 212 Illus. 1903. Longmans, 10s. 6d.

TURBINES: THEORETICAL AND Practical, by de Volson Wood (U.S.A.). Demy 8vo. 2nd ed. Chapman, 10s. 6d.

TURBINE WHEELS: INAPPLICABILITY of the Theoretical Investigations of the Turbine Wheel to the Modern Constructions, by W. P. Trowbridge (U.S.A.). 16mo. 2nd ed. 94 pp. Spon, 2s.

Valves.

SAFETY VALVES: THEIR HISTORY, Invention and Calculation, by Le Van. Fcp. 8vo. 151 pp. 69 Illus. N. W. Henley & Co., N.Y., $1.50.

VALVES AND VALVE GEARING, for Engineers, Draughtsmen and Students, by C. Hurst. Demy 8vo. 3rd ed. 164 pp. 5 Plates. 1903. Griffin, 10s. 6d.

(See also p. 84.)

Water Wheels.

PRACTICAL TREATISE ON THE CONSTRUCTION of Horizontal and Vertical Water Wheels, by W. Cullen. Small 4to. 2nd ed. Spon, 5s.

PRINCIPLES OF CONSTRUCTION AND Efficiency of Water Wheels, by W. Donaldson, M.A. Spon, 5s.

Windmills.

WINDMILL AS A PRIME MOVER, by A. R. Wolff (U.S.A.). 2nd ed. Spon, 12s. 6d.

Wire, Wire-Rope.

AERIAL OR WIRE-ROPE TRAMWAYS: Construction and Management, by A. J. Wallis-Tayler. 12mo. 216 pp. 81 Illus. 1898. Crosby Lockwood, 7s. 6d.

ENGLISH WIRE GAUGE, with Tables, by T. Hughes. 8vo. Spon, 2s. 6d. paper.

WIRE: ITS MANUFACTURE AND Uses, by J. B. Smith. Cr. 4to. 1891. *Engineering*, 7s. 6d.

(**Workshops.** See **Engineering Workshops** above.)

(**Eyesight.** See section 48.)

(**Explosives.** See section 42.)

SECTION 22.

FACTORIES AND WORKSHOPS.

Factories and Workshops.

ACCIDENT IN FACTORIES: ITS Distribution, Causation, Compensation and Prevention, by J. Calder. Cr. 8vo. 342 pp. 20 Tables and 124 Illus. 1899. Longmans, 7s. 6d.

COMMERCIAL ORGANISATION OF Factories, for Manufacturers, Managers, Auditors, etc., by J. S. Lewis. Royal 8vo. Spon, 28s.

DEPRECIATION OF FACTORIES, Mines and Industrial Undertakings, and their Valuation, by E. Matheson. Demy 8vo. 3rd ed. 183 pp. Illus. 1903. Spon, 7s. 6d.

DUTIES OF LOCAL AUTHORITIES under the Factory and Workshop Act, 1901, by J. R. Kaye, M.B., D.P.H. 8vo. 1903. Sanitary Pub. Co., 2s.

FACTORY AND WORKSHOP ACTS, 1878-1895, by A. and J. A. Redgrave. Post 8vo. 7th ed. 479 pp. 1898. Butterworth, 6s.

FACTORY AND WORKSHOP ACT, 1901, by Williams and Musgrave. 1902. Alan Stuart, 3s. 6d.

FACTORY AND WORKSHOP ACT, 1901. 32mo. 1902. Simpkin, 1s.

HANDY-BOOK OF THE LABOUR Laws, by G. Howell. Cr. 8vo. 3rd ed. 338 pp. 1895. Macmillan, 3s. 6d.

HOW TO BECOME A FACTORY Inspector, by T. F. Uttley. Emmott, Manchester, 2s.

LAW OF FACTORIES AND WORKSHOPS as Amended by Factory Act, 1901, by A. H. Ruegg. 8vo. 1902. Stevens & Haynes, 12s. 6d.

LAW RELATING TO FACTORIES AND Workshops, by M. E. Abraham and A. L. Davies. Demy 8vo. 4th ed. 1902. Eyre & Spottiswoode, 5s.

LAW RELATING TO FACTORIES AND Workshops, by E. Austin. Cr. 8vo. 2nd ed. 1902. Knight, 7s. 6d.

LAW RELATING TO FACTORIES AND Workshops as Amended by Act of 1901, by W. Bowstead. 8vo. 1901. Sweet & Maxwell, 9s.

OUR FACTORIES, WORKSHOPS AND Warehouses: Their Sanitary and Fire-resisting Arrangements, by B. H. Thwaite. Cr. 8vo. Spon, 9s.

PREVENTION OF FACTORY ACCIDENTS, by J. Calder. Cr. 8vo. 325 pp. 124 Illus. 20 Tables. 1899. Longmans, 7s. 6d.

REDGRAVE'S FACTORY ACTS, by H. S. Scrivener, M.A., and C. F. Lloyd. 9th ed. 1902. Butterworth, 7s. 6d.

TABULATION OF THE FACTORY Laws of European Countries, by E. Brooke. 8vo. 1898. Clowes, 2s. 6d.

(**Engineering Workshops.** See section 21.)

Workmen's Compensation, Employers' Liability.

ACCIDENTS TO WORKMEN, EMPLOYERS' Liability Act, 1880, Workmen's Compensation Act, 1898, by R. Minton-Senhouse and G. F. Emery. Demy 8vo. 380 pp. 1898. E. Wilson, 15s.

COMPENSATION TO WORKMEN ACT, 1897, by W. A. Willis, LL.B. Post 8vo. 7th ed. 215 pp. 1901. Butterworth, 2s. 6d.

EMPLOYERS' LIABILITY ACT, 1880, with other Acts, by A. H. Ruegg. Post 8vo. 489 pp. 1901. Butterworth, 12s. 6d.

EMPLOYERS' LIABILITY UNDER THE Workmen's Compensation Act, 1897, and Employers' Liability Act, 1880, by A. Robinson and J. D. Stuart. Royal 12mo. 2nd ed. 1898. Stevens & Sons, 7s. 6d.

HANDBOOK TO WORKMEN'S COMPENSATION Act, 1897, with Addendum on Workmen's Compensation Act, 1900, by R. M. Minton-Senhouse and G. F. Emery. Cr. 8vo. 184 pp. Bemrose, 1s. boards.

LAW AND PRACTICE RELATING TO Workmen's Compensation and Employers' Liability, by W. E. Hill, M.A. Demy 8vo. 370 pp. 1898. Waterlow, 8s. 6d.

LAW RELATING TO WORKMEN'S Compensation under Acts of 1897 and 1900, by W. Bowstead. 8vo. 1901. Sweet & Maxwell, 10s.

OUTLINE OF LAW RELATING TO Workmen's Compensation Act, under Acts 1897 to 1900, by W. Bowstead. Cr. 8vo. 64 pp. 1902. Simpkin, 1s.

WORKMEN'S COMPENSATION ACT, 1897, with Introduction and Notes, by A. Taylor, M.A., LL.B. Cr. 8vo. 105 pp. 1898. Hodge & Co., Glasgow, 2s. 6d.

WORKMEN'S COMPENSATION ACT, by Roberts-Jones. 5th ed. 1902. 49 Clude Road, Cardiff, 2s. 6d.

WORKMEN'S COMPENSATION ACT, 1897, by W. A. Willis. Cr. 8vo. 6th ed. 262 pp. 1899. Butterworth, 3s. 6d.

WORKMEN'S COMPENSATION ACTS, 1897 and 1900, by A. Elliott. Cr. 8vo. 2nd ed. 410 pp. 1901. Stevens & Haynes, 7s. 6d.

WORKMEN'S COMPENSATION CASES, being Reports of Cases Decided under Workmen's Compensation Acts, by R. M. Minton-Senhouse. Vol. IV. 8vo. 1902. Vol. V. 1903. Clowes, 6s. each.

(**Wages Tables.** See section 11.)

SECTION 23.

FINANCIAL.

(**Banking.** See section 7.)

Investments.

BRITISH RAILWAY FINANCE: Guide to Investors, by W. W. Wall. 8vo. 422 pp. 1902. Richards, 6s.

HANDBOOK OF SOUTH AFRICAN Mines. 16mo. 397 pp. 1902. E. Wilson, 5s.

HOW TO INVEST IN MINES, by E. R. Gabbott. Cr. 8vo. 2nd ed. 91 pp. 1896. E. Wilson, 2s. 6d.

HOW TO INVEST IN RAILWAYS, by W. W. Wall. Cr. 8vo. 422 pp. 1903. Richards, 6s.

HOW TO INVEST MONEY, by E. R. Gabbott. 12mo. 82 pp. E. Wilson, 1s. limp.

INVESTMENT AND SPECULATION IN British Railways, by W. J. Stevens. Cr. 8vo. 262 pp. and Tables. 1902. E. Wilson, 4s.

INVESTMENT TABLES, SHOWING Actual Interest or Profit per cent. per Annum. E. Wilson, 2s.

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LAW OF SALES OF STOCKS AND Shares, by C. F. Stallard, M.A. Fcp. 8vo. 181 pp. 1897. Clement Wilson, 2s. 6d.

MANUAL OF RAILROADS OF THE United States and other Investment Securities, by H. V. and H. W. Poor. 70 Maps. Annual. E. Wilson, 45s.

MATHIESON'S HANDBOOK FOR Investors. Annual. 12mo. 1902. Mathieson, 2s. 6d.

Investments, *continued.*

MINING MANUAL. Annual, by W. R. Skinner. Demy 8vo. Skinner, 21s.

MONEY MARKET PRIMER, by G. Clare. Demy 8vo. 2nd ed. 150 pp. 1902. E. Wilson, 5s.

PRACTICAL HINTS TO INVESTORS, by A. J. Wilson. Cr. 8vo. 2nd ed. 102 pp. 1897. Clement Wilson, 1s. 6d.

REGISTERED MONEY LENDERS, 1901, with Copy of Money Lenders Act. 175 pp. Argus Printing Co., 2s. 6d.

SHAREHOLDERS, DIRECTORS AND Voluntary Liquidators' Legal Companion, by F. B. Palmer. 12mo. 20th ed. 1901. Stevens & Sons, 2s. 6d.

SHAREHOLDER'S HANDBOOK, by F. W. Pixley. 2nd ed. H. Good & Son, 2s. 6d.

TABLES FOR FINDING HALF-YEARLY Rate of Interest from 1¼ per cent. Upwards, Realised on Stock or Bonds, by Lieut.-Col. W. H. Oakes. Imp. 8vo. Layton, 10s. 6d.

TREATISE ON LAW RELATING TO Debentures and Debenture Stock, by P. F. Simonson, M.A. Royal 8vo. 3rd. ed. 521 pp. 1902. E. Wilson, 21s.

WILSON'S HANDBOOK TO SOUTH African Mines, etc. : Guide to Kaffir Market. Cr. 8vo. 1902. E. Wilson, 5s. boards.

Stockbroking.

BROKER'S CORRESPONDENT : Letter Writer for Stock Exchange Business, by J. Martin. Cr. 8vo. 68 pp. E. Wilson, 1s.

DICTIONARY OF STOCK EXCHANGE Terms, by W. G. Cordingley. Cr. 8vo. 95 pp. 1901. E. Wilson, 2s. 6d.

ENGLISH AND FRENCH EXPLANATORY Dictionary of Terms and Phrases Relating to Finance, Stock Exchange and Gold Mining, by M. A. Meliot. Cr. 8vo. 246 pp. 1896. E. Wilson, 5s.

GLOSSARY OF COLLOQUIAL, SLANG ar[illegible]ical Terms in Use on [illegible]ge and Money Market, by A. J. Wilson. Cr. 8vo. 210 pp. 1895. Clement Wilson, 3s.

GUIDE TO STOCK EXCHANGE, by W. G. Cordingley. 12mo. 130 pp. 1901. E. Wilson, 2s.

KEY TO RULES OF STOCK EXCHANGE, by F. Chiswell. Demy 8vo. 183 pp. 1902. E. Wilson, 7s. 6d.

RAPID SHARE CALCULATOR FOR Calculating ⅛ths, $\frac{1}{16}$ths and $\frac{1}{32}$nds, by E. de Segundo, on a card. E. Wilson, 10s. 6d.

REGISTRATION OF TRANSFERS OF Transferable Stocks, Shares and Securities, by G. & G. F. M. Ennis. Demy 8vo. 128 pp. 1893. E. Wilson, 7s. 6d.

RULES AND USAGES OF STOCK Exchange, by G. H. Stutfield and H. S. Cautley. Demy 8vo. 3rd ed. 214 pp. 1901. E. Wilson, 6s.

STOCKBROKER'S HANDBOOK, by E. E. Kennedy. 12mo. 6th ed. 68 pp. 1900. E. Wilson, 1s. limp.

STOCK EXCHANGE OFFICIAL INTELLIGENCE. Royal 8vo. 2144 pp. Annual. Spottiswoode & Co., 50s.

UNITED KINGDOM STOCK AND Sharebrokers' Directory, 1901-2. Demy 8vo. 216 pp. Spottiswoode & Co., 4s. 6d.

(**Trust Funds.** Section 40.)

(**First Aid.** See section 32.)

(**Fish.** See section 24.)

SECTION 24.

FOODS AND BEVERAGES.

Adulteration and Analysis.

ADULTERATION ACTS, by F. W. Beech. Demy 8vo. 4th ed. 56 pp. 1900. Federation of Grocers' Assistants, 6d. paper.

ADULTERATION OF FOOD, by D. C. Bartley. Royal 12mo. 1899. Stevens & Sons, 8s.

AIDS TO THE ANALYSIS OF FOOD and Drugs, by T. H. Pearmain and C. G. Moor. Cr. 8vo. 2nd ed. 206 pp. 1899. Baillière, 3s. 6d.

ANALYSIS OF FOODS AND DRUGS, by T. H. Pearmain and C. G. Moor, M.A. Part I. Milk and Milk Products. 132 pp. 1897. 5s. Part II.

Chemical and Biological Examination of Water. 172 pp. 91 Illus. 1899. 5s. paper. Baillière.

CHEMISTRY OF FOODS, with Microscopic Illustrations, by J. Bell. Part I. Tea, Coffee, Cocoa, Sugar, etc. Large cr. 8vo. Chapman, 2s. 6d.

FLESH FOODS, for Analyists and Inspectors, by C. A. Mitchell. Cr. 8vo. 58 Illus. 1 Plate. 336 pp. 1900. Griffin, 10s. 6d.

FOOD ADULTERATION AND ITS Detection, by J. P. Battershall, Ph.D. (U.S.A.). Plates. 1887. Spon, 15s.

FOOD AND DRUGS ADULTERATION, Consolidation of Various Acts, by C. J. Higginson. Cr. 8vo. 2nd ed. 203 pp. 1902. E. Wilson, 3s. 6d.

FOOD INSPECTOR'S HANDBOOK, by F. Vacher. Cr. 8vo. 3rd ed. 195 pp. 58 Illus. 1900. Sanitary Pub. Co., 3s. 6d.

FOODS: THEIR COMPOSITION AND Analysis, by A. W. Blyth, M.R.C.S., and M. W. Blyth, B.A., B.Sc. Demy 8vo. 5th ed. 740 pp. 81 Illus. and Plates. 1903. Griffin, 21s.

LAW AND CHEMISTRY RELATING to Food and Drugs, by H. M. Robinson, LL.D., and C. H. Cribb, B.Sc. Cr. 8vo. Rebman, 6s.

LAW RELATING TO ADULTERATION of Food, by J. Macauley. Cr. 8vo. 1895. Clowes, 3s. 6d.

REPORT OF DEPARTMENTAL COMMITTEE on Use of Preservatives and Colouring Matters in Foods. Eyre & Spottiswoode, 4s. 3d.

SECOND TREATISE ON THE EFFECTS of Borax and Boric Acid on the Human System, by Dr. O. Liebreich, trans. from German. Med. 8vo. 87 pp. 5 Col. Plates. 1902. Churchill, 2s. 6d.

SELECT METHODS IN FOOD ANALYSIS, by H. Leffmann, M.D., and W. Beam (U.S.A.) Large cr. 8vo. 383 pp. 4 Plates. 53 Illus. 1901. Rebman, 11s.

MICROSCOPICAL EXAMINATION OF Foods and Drugs, by H. G. Greenish. Royal 8vo. 346 pp. 168 Illus. 1903. Churchill, 10s. 6d.

SIMPLE METHODS FOR DETECTING Food Adulteration, by J. A. Bower. Cr. 8vo. 118 pp. 36 Illus. 1895. S.P.C.K., 2s.

Aerated Beverages.

MINERAL WATER MANUFACTURERS' Accounts. Demy 8vo. 1902. Gee. 3s. 6d.

SODA FOUNTAIN REQUISITES OF Modern Times, ed. by G. H. Dubelle. Cr. 8vo. 2nd ed. 158 pp. 1901. Spon, 5s.

Bread-making.

BAKERS' GUIDE, by J. Blandy. Demy 8vo. 4th ed. 242 pp. 1899. Newton & Eskell, 2s. 6d.

BAXTER'S UP-TO-DATE RECIPE Book for Bakers. Laird & Lee, Chicago, $1.50.

BREAD AND BISCUIT BAKER'S AND Sugar Boiler's Assistant, by R. Wells. Cr. 8vo. 3rd ed. 122 pp. 1896. Lockwood, 2s.

BREAD ANALYSIS, by J. A. Wanklyn and W. J. Cooper. Cr. 8vo. 78 pp. 1886. Kegan Paul, 5s.

BREAD, BAKEHOUSES AND BACTERIA, by F. J. Waldo, M.A., M.D., and D. Walsh, M.D. Large cr. 8vo. 65 pp. 1895. Baillière, 2s.

ELEMENTARY PRINCIPLES OF Breadmaking, by J. Goodfellow. Cr. 8vo. 196 pp. 75 Illus. 1895. *Baker and Confectioner*, 3s.

GUIDE TO BOOK-KEEPING, for Bakers, by W. H. Rippin. Maclaren, 1s. 6d.

MODERN PRACTICAL BREAD BAKER, by R. Wells. Cr. 8vo. 140 pp. Abel Heywood, Manchester, 2s. 6d.

PRACTICAL BREADMAKING, by F. T. Vine. 2nd ed. 222 pp. 168 Illus. 1900. *Baker and Confectioner*, 3s.

PRINCIPLES OF BREADMAKING: an Introduction to the Study of the Principles of Breadmaking, by W. Jago. Cr. 8vo. 134 pp. 18 Illus. 1889. Maclaren, 2s.

SCIENCE AND ART OF BREADMAKING, and Chemistry and Testing of Wheat Flour, by W. Jago. Demy 8vo. 648 pp. 14 Plates. 81 Illus. 1895. Simpkin, 15s.

SELECTED RECIPES FOR THE BAKING Trade. Cr. 8vo. 136 pp. Illus. 1901. Maclaren, 2s. 6d. limp.

Cakes, Confectionery, Pastry.

BREAD, CAKES AND BUNS, by R. Wells. Handbook for Bakers and Confectioners. Cr. 8vo. 70 pp. Illus. 1904. Simpkin, 1s.

BUNS AND BOARD MIXTURES, by F. T. Vine. 1902. *Baker and Confectioner*, 2s. 6d.

CAKES, AND HOW TO MAKE THEM, by F. T. Vine. Cr. 8vo. 2nd ed. 262 pp. 99 Illus. 1901. Maclaren, 3s. 6d.

CAKE DECORATION, by R. Gommez. 8vo. 96 pp. 59 Illus. 1899. *Baker and Confectioner*, 2s. 6d.

CAKE DECORATION, by Ernest Schulbe. 4to. 88 pp. 94 Illus. 1901. Maclaren, 5s.

GUNTER'S MODERN CONFECTIONER and Biscuit Baker, by W. Jeanes. Cr. 8vo. 16th ed. 308 pp. 1900. Dean, 3s. 6d.

HINTS ON MODERN CAKEMAKING, by G. D. Lynn. Cr. 8vo. 232 pp. Illus. Maclaren, 3s. 6d.

ICES: PLAIN AND DECORATED, by F. T. Vine. Large cr. 8vo. 96 pp. 6 Plates. Maclaren, 2s.

MODERN FLOUR CONFECTIONER, by R. Wells. Post 8vo. 1891. Lockwood, 2s.

MODERN PRACTICAL CONFECTIONER, by W. C. Butler. 16mo. 98 pp. 1898. Simpkin, 1s.

ORNAMENTAL CONFECTIONERY, by R. Wells. Cr. 8vo. 2nd ed. 129 Designs. Lockwood, 5s.

PASTRYCOOK AND CONFECTIONER'S Guide, by R. Wells. Cr. 8vo. 2nd ed. 1892. Lockwood, 2s.

PIPING AND ORNAMENTATION, by R. Gommez. Cr. 8vo. 104 pp. 67 Illus. 1895. *Baker and Confectioner*, 7s. 6d.

PRACTICAL PASTRY, by F. T. Vine. Cr. 8vo. 2nd ed. 212 pp. 100 Illus. 1898. *Baker and Confectioner*, 2s. 6d.

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SLAB CAKES, by F. Houghton. Cr. 8vo. 112 pp. Illus. 1901. *Baker and Confectioner*, 3s. 6d.

Catering, Hotels.

PRACTICAL HOTEL MANAGEMENT, including Notes and Comments on Hotel Law. Demy 8vo. 3rd ed. 203 pp. 1899. Newton & Eskell, 2s. 6d. paper.

Coffee.

COFFEE AND INDIA-RUBBER CULTURE in Mexico, by M. Romers (U.S.A.). 8vo. Putnam, 14s.

COFFEE: ITS CULTURE AND COMMERCE in all Countries, by C. G. W. Lock. Cr. 8vo. 264 pp. 11 Plates. 1888. Spon, 12s. 6d.

COFFEE PLANTER'S MANUAL, for both Arabian and Liberian Species, by J. Ferguson. 8vo. 4th ed. 320 pp. Illus. Luzac, 4s. 6d.

(**Dairy Farming.** See Sect. 1.)

Fish.

AMATEUR FISH CULTURE, by C. E. Walker. Cr. 8vo. 108 pp. 1901. Constable, 2s. 6d.

AMERICAN FISH CULTURE; Trout, Salmon, Shad, etc., by T. Norris. 12mo. Illus. H. T. Coates & Co., Philadelphia, $1.75.

BRITISH FRESH WATER FISH, by Rt. Hon. Sir H. Maxwell. 12 coloured Plates. Illus. Cr. 4to. 1903. Hutchinson, 12s. 6d.

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MODERN FISH CULTURE, Fresh and Salt Water, by F. Mather. Cr. 8vo. 333 pp. Illus. 1900. Forest & Stream Pub. Co., N.Y.

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CORN TRADE INVOICE CLERK, by H. Richter. E. Wilson, 1s.

FLOUR MANUFACTURE, by F. Kick; trans. by H. H. P. Powles. Royal 8vo. 367 pp. 167 Illus. 28 Plates. 1888. Lockwood, 25s.

FOOD-GRAINS OF INDIA, by A. H. Church. 4to. 1902. Chapman, 6s.

GRAIN AND FLOUR TABLES, McCorquodale, 1s.

GRAIN, FLOUR, HAY, ETC., MERCHANTS' Accounts. Demy 8vo. 1902. Gee & Co.

MEYER'S STANDARD GRAIN TELEGRAPH Code. Palmer, Howe, Manchester, 35s.

MODERN FLOUR MILLING, by W. R. Voller. Demy 8vo. 3rd ed. 484 pp. 122 Illus. 1897. *Baker and Confectioner*, 10s. 6d.

PRACTICAL HINTS ON FLOUR, by W. T. Bates. Cr. 8vo. 68 pp. 1899. *Baker and Confectioner*, 1s.

READY RECKONER FOR MILLERS, Corn Merchants and Farmers, by W. S. Hutton. Cr. 8vo. 2nd ed. Lockwood, 2s.

ROLLER MILL AND SILO MANUAL: Notebook for Millers and Millwrights, by J. Donaldson. Cr. 8vo. 2nd ed. 174 pp. 1901. Simpkin, 4s. 3d.

STANDARD ENGLISH AND FOREIGN Corn Calculator, by E. A. P. Burt. Demy 8vo. 150 pp. Rider, 4s.

Food and Drugs Acts.

SALE OF FOOD AND DRUGS ACTS, 1875-1899, by M. S. Howman. 145 pp. 1901. W. Green & Sons, Edinburgh, 5s.

SALE OF FOOD AND DRUGS ACTS, with Notes, by T. C. H. Hedderwick, M.A. Demy 8vo. 2nd ed. Eyre & Spottiswoode, 7s. 6d.

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(**Adulteration and Analysis.** See above.)

Foods.

CLASSIFICATION OF FOOD STUFFS Chart, by J. J. Pilley. Gill, 5s.

DIET IN RELATION TO AGE AND Activity, by Sir H. Thompson. Cr. 8vo. 1902. Warne, 2s. 6d.

DISINFECTION AND PRESERVATION of Food, by S. Rideal, D.Sc. Royal 8vo. 500 pp. 1904. Sanitary Pub. Co., 15s.

FAMOUS FOODS, DRINKS AND Drugs: Their Muscle-making, Fat-producing and Curative Properties, by C. H. Woolf. 8vo. 1903. Gutenberg Press, 1s. paper.

FOOD AND FEEDING, by Sir H. Thompson. Cr. 8vo. 11th ed. 1902. Warne, 5s.

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MANUFACTURE OF PRESERVED Foods and Sweetmeats, trans. from German of A. Hausner. Cr. 8vo. 225 pp. 28 Illus. 1902. Scott, Greenwood, 7s. 6d.

RECEIPTS FOR FLUID FOODS: 14 Recipes, by M. and J. F. Bullar, M.B. 18mo. 20 pp. 1887. Lewis, 1s.

Meat.

DOUGLAS'S ENCYCLOPÆDIA, for Bacon Curers, Sausage and Pork Pie-makers and Inspectors. Demy 4to. 403 pp. Illus. 1901. Douglas & Sons, Putney, S.W., 7s. 6d.

PORK BUTCHER'S GUIDE. Sq. 12mo. 5th ed. 117 pp. 1892. *Grocer's Gazette*, 1s. boards.

PRACTICAL BUTCHERING, by W. H. Major. 1903. W. H. Major, Folkestone, 2s. 6d.

THOMAS' AMERICAN PRODUCE Trades Reference Book. 12mo. Thomas Pub. Co., N.Y., $3.

(**Refrigeration.** See p. 98.)

Sugar.

AMERICAN SUGAR INDUSTRY; Production of Sugar Beets and Sugar Cane, by H. Myrick (U. S. A.). Demy 8vo. 224 pp. Illus. 1899. Kegan Paul, 7s. 6d.

HANDBOOK FOR SUGAR MANUFACTURERS and their Chemists, by G. L. Spencer (U.S.A.). 12mo. 3rd ed. 243 pp. Chapman, 8s. 6d.

INTRODUCTORY MANUAL FOR SUGAR Growers, by F. Watts. Cr. 8vo. 151 pp. 20 Illus. 1893. Longmans, 6s.

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TABLES FOR THE QUANTITATIVE Estimation of the Sugars, trans. from W. Frew. Cr. 8vo. Spon, 6s.

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Sweetmeats.

ART OF SWEETMAKING, by B. Manders. Cr. 8vo. 74 pp. 1901. Simpkin, 2s. 6d.

CHOCOLATE AND CONFECTIONERY Manufacture, by A. Jacontot. 8vo. 211 pp. 1903. Maclaren, 21s.

HOME-MADE SWEETMEATS, JAMS, Marmalades, Wines, etc., by Mrs. H. M. Young. 12mo. 34 pp. 1902. Simpkin, 1s. boards.

MANUFACTURE OF CHOCOLATE, by P. Zipperer. Imp. 8vo. 1902. Spon, 16s.

MANUFACTURE OF PRESERVED Foods and Sweetmeats, trans. from German of A. Hausner. Cr. 8vo. 225 pp. 28 Illus. 1902. Scott, Greenwood, 7s. 6d.

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TOFFY AND SWEETS: HOW TO Make Them, by R. Wells. Cr. 8vo. 68 pp. Illus. 1893. Simpkin, 1s.

TREATISE ON THE ART OF BOILING Sugar, Lozenge-making, etc., by H. Weatherley. Cr. 8vo. 131 pp. Baird, Philadelphia, $1.50.

Tea.

GOLDEN TIPS: Description of Ceylon and its Great Tea Industry, by H. W. Cave. 8vo. 3rd ed. 1904. Cassell, 10s. 6d.

INDIAN TEA: its Culture and Manufacture, by C. Bald. Demy 8vo. Illus. 1903. Thacker, 7s. 6d.

TEA AND TEA BLENDING. Cr. 8vo. 4th ed. 152 pp. 1894. *Grocers' Gazette*, 5s.

TEA CULTIVATION IN WESTERN Ssüch'uan and the Tea Trade with Tibet *via* Tachienlu, by A. de Rosthorn. Cr. 8vo. 40 pp. 1895. Luzac, 2s. paper.

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Vinegar, etc.

PRACTICAL TREATISE ON THE Manufacture of Vinegar, Acetates, Cider and Fruit Wines, Preservation of Fruit and Vegetables, Meat, Fish and Eggs, by W. T. Brannt (U.S.A.). Royal 8vo. 2nd ed. 555 pp. 104 Illus. 1902. Sampson Low, 25s.

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BILLS OF EXCHANGE ACT (1890), Canada, and Amending Act of 1891, by J. J. Maclaren, Q.C., D.C.L., LL.D. 2nd ed. 1896. Carswell Co., Ltd., Toronto, $5.50.

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DICTIONARY OF METRIC AND other Useful Measures, by L. Clark. Cr. 8vo. Spon, 6s.

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METRIC SYSTEM OF WEIGHTS and Measures, School Wall Chart. 42 in. × 45 in. Collins, Sons & Co., 7s. 6d.

METRIC SYSTEM OF WEIGHTS AND Measures Compared with the Imperial System, by W. H. Wagstaff, M.A. Cr. 8vo. 130 pp. 1896. Whittaker, 1s. 6d.

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Universal Dictionary of Weights and Measures, by J. H. Alexander. 8vo. New ed. Van Nostrand, N.Y., $3.50.

Section 26.

FOREIGN LANGUAGES.

Languages.

Art of Teaching and Studying Languages, trans. from French of F. Gouin by H. Swan and V. Bétis. Cr. 8vo. 6th ed. 1901. G. Philip, 7s. 6d.

Commercial Dutch Grammar, by H. Elffers. Cr. 8vo. 2nd ed. 1896. D. Nutt, 5s.

Course of Commercial German, by E. E. Whitfield M.A., and C. Kaiser. Cr. 8vo. 274 pp. 1903. Longmans, 3s. 6d.

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Portuguese and English Grammar and Commercial Handbook, by J. C. Mascarenhas. 1902. Hirschfeld, 5s.

(Foreign Commercial Correspon-
der section 15. Teach-
i s. Section 65.)

Foreign Technical Dictionaries.

Business Terms and Phrases, with French, German and Spanish Equivalents. Cr. 8vo. 231 pp. Forms. Pitman, 2s. 6d.

English-Russian and Russian-English Military Vocabulary, by Lieut. A. Mears. Cr. 8vo. 127 pp. 1898. D. Nutt, 3s. 6d.

German-English and English-German Technological Dictionary, by G. Eger; revised by O. Brandes. 2 vols. 8vo. Vol. I. English-German. 1882. 10s. 6d. Vol. II. German-English. 1884. 13s. D. Nutt.

Pocket Glossary of Technical Terms: English-French, French-English, by J. J. Fletcher. 3rd ed. 200 pp. 1901. Lockwood, 1s. 6d.

Spanish Technological Dictionary, by Ponce de Leon. Vol. I. English-Spanish. 36s. Vol. II. Spanish-English. 32s. Whittaker.

Technical Dictionary: English-Spanish, Spanish-English. 2 vols. Royal 8vo. 1893. Vol. I. Spanish-English. 873 pp. 36s. Vol. II. English-Spanish. 782 pp. 32s. Hirschfeld.

Technical Words and Phrases: English-French and French-English, by J. A. Standring and C. A. Thimm. 16mo. 186 pp. 1900. Marlborough, 2s. 6d.

Technological Dictionary in English, German and French. 3 vols. Royal 8vo. Vol. I. French-German-English. 3rd ed. 1887. 14s. Vol. II. German-English-French. 4th ed. 1887. 12s. Vol. III. English-German-French. 4th ed. 1891. 14s. D. Nutt.

Technological Dictionary, by K. Karmarsch. 3 vols. Imp. 8vo. 4th ed. Vol. I. German-English-French. 5th ed. 882 pp. 1902. 12s. Vol. II. English-French-German. 5th ed. 906 pp. 1891. 12s. Vol. III. French-German-English. 782 pp. 1887. 15s. Kegan Paul.

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(**Commercial Dictionaries.** See section 15.)

(**Fuel.** See section 21.)

SECTION 27.

GARDENING, FLOWERS.

Botany.

AGRICULTURAL BOTANY: Theoretical and Practical, by J. Percival. Cr. 8vo. 2nd ed. 818 pp. 265 Illus. 1902. Duckworth, 7s. 6d.

BOTANICAL MICROTECHNIQUE, by Dr. A. Zimmermann; trans. from German. Demy 8vo. 296 pp. 60 Illus. 1896. Constable, 12s.

BOTANIST'S POCKET BOOK, by W. R. Hayward. Fcp. 8vo. 7th ed. 226 pp. 1901. Bell, 4s. 6d.

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MANUAL OF AGRICULTURAL Botany, from German of Dr. A. B. Frank; trans. by J. W. Paterson. Cr. 8vo. 199 pp. 133 Illus. 1898. Blackwood, 3s. 6d.

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TEXT-BOOK OF BOTANY, by E. Strasburger, from German, 2nd ed. Royal 8vo. 680 pp. 1903. Macmillan, 18s.

TEXT-BOOK OF ELEMENTARY Botany, by C. L. Laurie. 142 pp. 150 Illus. 1901. Allman, 2s. 6d.

Cellulose.

CELLULOSE, CELLULOSE PRODUCTS, Rubber Substitutes, by J. Bersch, trans. by W. T. Brannt (U.S.A.). 8vo. 326 pp. 41 Illus. 1904. Low, 15s.

CELLULOSE: AN OUTLINE OF THE Chemistry of the Structural Elements of Plants, by C. F. Cross and E. J. Bevan. Cr. 8vo. 320 pp. 14 Plates. 1895. Longmans, 12s.

RESEARCHES IN CELLULOSE, 1895-1900, by C. F. Cross and E. J. Bevan. Cr. 8vo. 1901. Longmans, 6s.

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AMATEUR'S FLOWER GARDEN, by S. Hibberd. Cr. 8vo. 347 pp. Illus. Coloured Plate. 1901. Collingridge, 3s. 6d.

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FLOWERS AND GARDENS IN INDIA, by Mrs. R. Temple-Wright. Post 8vo. 5th ed. 132 pp. 1902. Thacker, 2rs. 8an.

FORCING GARDEN: EARLY FRUITS, Flowers, and Vegetables, by S. Wood. Cr. 8vo. 1881. Lockwood, 3s. 6d.

HANDY-BOOK OF THE FLOWER Garden, by D. Thomson. Cr. 8vo. 5th ed. 288 pp. 11 Plates. 1893. Blackwood, 5s.

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(**Fruit Growing.** Section 1.)

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AMERICAN GARDENER'S ASSISTANT, by T. Bridgeman. 12mo. 70 Illus. H. T. Coates & Co., Philadelphia, $1.

ART AND CRAFT OF GARDEN-MAKING, by T. H. Mawson. 4to. 2nd ed. 252 pp. 178 Illus. 1901. Batsford, 25s.

BOOK OF GARDENING, ed. by W. D. Drury. Demy 8vo. 1198 pp. 720 Illus. 1900. Upcott Gill, 16s.

BRITISH GARDENER: MANUAL OF Practical Instruction, by W. Williamson. Demy 8vo. 418 pp. 1901. Methuen, 10s. 6d.

CYCLOPÆDIA OF AMERICAN HORTICULTURE, ed. by L. H. Bailey and W. Miller. 4 vols. Imp. 8vo. Vol. I. A-D. 509 pp. 743 Illus. 9 Plates. Vol. II. E-M. 542 pp. 710 Illus. 10 Plates. 1900. Vol. III. N-Q. 432 pp. 606 Illus. 11 Plates. Vol. IV. Q-Z. 1901. Macmillan, 21s. each.

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DICTIONARY OF PRACTICAL GARDENING, ed. by W. P. Wright. 2 vols. Imp. 8vo. 1902. Cassell, 30s.

ENCYCLOPÆDIA OF GARDENING, by T. W. Sanders. Cr. 8vo. 4th ed. 442 pp. 1901. Collingridge, 3s. 6d.

FORMAL GARDENS IN ENGLAND and Scotland: Planning and Arrangement, Architectural and Ornamental Features, by H. J. Triggs. Folio. 72 Plates. 1902. Batsford, 84s.

GARDEN AND GROUNDS: HOW TO Lay Out and Arrange, by T. W. Sanders. Sq. 8vo. 36 pp. 12 Illus. 1902. Dawbarn, 6d. paper.

GARDEN-MAKING: SUGGESTIONS for the Utilization of Home Grounds, by L. H. Bailey. Gl. 8vo. 417 pp. 255 Illus. 1901. Macmillan, 4s.

GARDENER'S ASSISTANT, by R. Thompson; revised by W. Watson and others. 6 vols. Imp. 8vo. Illus. Coloured Plates. 1902. Gresham Pub. Co., 8s. each.

GARDENER'S DICTIONARY (Johnson's), by C. H. Wright and Dewar. Demy 8vo. 1072 pp. Illus. 1900. Bell, 9s.

GARDENER'S EVERY-DAY BOOK OF Horticulture and Floriculture, by G. Glenny. Cr. 8vo. 316 pp. Houlston, 5s. 6d.

GARDENING FOR BEGINNERS, by E. T. Cook. Royal 8vo. 568 pp. 1902. Newnes, 12s. 6d.

GARDENING YEAR-BOOK. Cr. 8vo. 300 pp. Illus. Collingridge, 1s.

HANDBOOK OF PRACTICAL LANDSCAPE Gardening, by F. R. Elliott (U.S.A.). Demy 8vo. 2nd ed. 96 pp. Illus. 1885. Kegan Paul, 7s. 6d.

HANDY BOOK ON GARDENING AND Golden Rules for Gardeners, by G. Glenny. Cr. 8vo. 2nd ed. 96 pp. 1902. Houlston, 1s. limp.

HOME GARDENING, by W. D. Drury. Cr. 8vo. 150 pp. Illus. 1898. Upcott Gill, 1s. paper.

IMPROVEMENT OF CRICKET Grounds, by J. A. Gibbs. Cr. 8vo. 42 pp. 1895. Horace Cox, 1s. 6d.

LANDSCAPE GARDENING, by E. Kemp (U.S.A.). Cr. 8vo. 3rd ed. Chapman, 10s. 6d.

LANDSCAPE GARDENING, by S. Parsons, Jun. (U.S.A.). Imp. 8vo. 330 pp. Plates and Illus. 1895. Putnam, 15s.

LANDSCAPE GARDENING, by F. A. Waugh (U.S.A.). Cr. 8vo. 152 pp. Illus. 1900. Gay & Bird, 2s. 6d.

LAWNS AND GARDENS: How to Beautify the Home Lot, Pleasure Ground and Garden, by N. Jönsson-Rose (U.S.A.). Royal 8vo. 414 pp. 171 Illus. 1897. Putnam, 15s.

MANUAL OF GARDENING FOR India (Firminger's) by H. St. J. Jackson. 16mo. Thacker, 10rs.

MANUAL OF PRACTICAL GARDENING, including Landscape Gardening, by G. Glenny. Cr. 8vo. 384 pp. Houlston, 5s. 6d.

MODERN PRACTICAL GARDENING: How to Grow Vegetables, Flowers and Fruit, by E. Watts. Cr. 8vo. 564 pp. Warne, 3s. 6d.

MY GARDEN COMPANION: Handbook for Amateurs. Cr. 8vo. 1902. Cable Pub. Co., 1s.

MY GARDENER: Practical Handbook, by H. W. Ward. 2nd ed. 1901. Eyre & Spottiswoode, 2s. 6d.

NEW BOOK OF GARDEN MANAGEMENT, by S. O. Beeton. Demy 8vo. 844 pp. 600 Illus. 1 Coloured Plate. Ward, Lock, 7s. 6d.

OPEN-AIR GARDENING, by W. D. Drury. Demy 8vo. 422 pp. 1901. Upcott Gill, 6s.

POISONOUS PLANTS IN FIELD AND Garden, by G. Henslow. Fcp. 8vo. 190 pp. 1901. S. P. C. K., 2s. 6d.

PRACTICAL GARDENING (Carter's). Small 4to. 211 pp. Illus. Marlborough, 1s.

PRACTICAL GUIDE TO GARDEN Plants, by J. Weathers. Med. 8vo. 1192 pp. 163 Illus. 1901. Longmans, 21s.

PROFITABLE GARDENING: Fruit and Vegetable Culture, by Shirley Hibberd. Cr. 8vo. 328 pp. Illus. Coloured Plate. 1898. Collingridge, 3s. 6d.

SPRAYING OF PLANTS, by E. G. Lodeman. Fcp. 8vo. 400 pp. 90 Illus. 1899. Macmillan, 4s.

SUBURBAN GARDEN AND WHAT to Grow in It, by F. M. Wells. 12mo. 272 pp. 1901. Sampson Low, 3s. 6d.

UNDERGROUND WATERING OF Plants and Gardens, by J. Grant. 16mo. 77 pp. 1902. Ward, Lock, 1s.

VILLA GARDENS: How to Plan and Plant Them, by W. S. Rogers. Cr. 8vo. 148 pp. 1902. Richards, 2s. 6d.

WALL AND WATER GARDENS, by G. Jekyll. Royal 8vo. 192 pp. 1901. Newnes, 12s. 6d.

Greenhouse Construction.

AMATEUR'S GREENHOUSE: Construction, Heating and Management, by T. W. Sanders. Cr. 8vo. 398 pp. Illus. 1902. Collingridge, 5s.

GREENHOUSE CONSTRUCTION AND Heating, by B. C. Ravenscroft. Cr. 8vo. 224 pp. 159 Illus. 1901. Upcott Gill, 3s. 6d.

GREENHOUSE CONSTRUCTION, by L. R. Taft (U.S.A.). Cr. 8vo. 210 pp. 118 Illus. 1901. Kegan Paul, 7s. 6d.

HORTICULTURAL BUILDINGS: Their Construction, Heating, Interior Fittings, etc., by F. A. Fawkes. Cr. 8vo. 300 pp. 123 Illus. Batsford, 1s.

Greenhouse Management.

AMATEUR'S GREENHOUSE AND CONSERVATORY, by S. Hibberd. Cr. 8vo. New ed. 300 pp. Illus. Coloured Plate. Collingridge, 3s. 6d.

BOOK OF THE GREENHOUSE, by J. C. Tallach. Cr. 8vo. 114 pp. 1901. Lane, 3s. 6d.

GREENHOUSE MANAGEMENT, for Florists and Flower Growers, by L. R. Taft (U.S.A.). Cr. 8vo. 382 pp. 128 Illus. 1900. Kegan Paul, 7s. 6d.

GREENHOUSE MANAGEMENT FOR Amateurs, by W. J. May. Cr. 8vo. 3rd ed. 380 pp. 128 Illus. Upcott Gill, 5s.

PICTORIAL GREENHOUSE MANAGEMENT, by W. P. Wright. 160 pp. 100 Illus. 1902. Cassell, 1s. 6d.

(**Mushrooms.** See **Vegetables.**)

Orchids and Cactuses.

BOOK OF ORCHIDS, by W. H. White. Cr. 8vo. 134 pp. 1902. Lane, 2s. 6d.

CACTUS CULTURE FOR AMATEURS, by W. Watson. Cr. 8vo. 270 pp. 98 Illus. 1899. Upcott Gill, 5s.

Orchids and Cactuses, *continued.*

CULTURE OF GREENHOUSE ORCHIDS: Old System and New, by F. Boyle. Cr. 8vo. 244 pp. 50 Illus. 3 Plates. 1902. Chapman, 8s.

ORCHIDS: THEIR CULTURE AND Management, by W. Watson. Demy 8vo. 572 pp. 3rd ed. Illus. 20 Coloured Plates. 1903. Upcott Gill, 25s.

SANDERS' ORCHID GUIDE: Description of Best-known Species, Cultivation, Temperatures, etc. Royal 8vo. 331 pp. 1902. Wesley, 10s. 6d.

Plant Diseases.

FUNGI AND FUNGICIDES: Fungous Diseases of Cultivated Plants, by C. M. Weed, D.Sc. (U.S.A.). Cr. 8vo. 228 pp. 87 Illus. 1896. Kegan Paul, 5s.

PLANT DISEASE AND ITS RELATION to Animal Life, by E. F. Wright. Cr. 8vo. 168 pp. 1903. Sonnenschein, 3s. 6d.

TEXT-BOOK OF PLANT DISEASES caused by Cryptogamic Parasites, by G. Massee. Cr. 8vo. 450 pp. 92 Illus. 1899. Duckworth, 5s.

Rose Growing.

AMATEUR'S ROSE BOOK, by Shirley Hibberd. Cr. 8vo. New ed. 297 pp. Illus. Coloured Plate. 1898. Collingridge, 3s. 6d.

BEAUTIFUL ROSES FOR GARDEN and Greenhouse, by J. Weathers. Cr. 8vo. 160 pp. 33 Coloured Plates. 1903. Simpkin, 6s.

BOOK ABOUT ROSES, by Rev. S. R. Hole. Cr. 8vo. Illus. E. Arnold, 3s. 6d.

BOOK OF THE ROSE, by A. F. Mellier. Cr. 8vo. 2nd ed. 354 pp. 33 Illus. 1902. Macmillan, 6s.

ROSES AND THEIR CULTIVATION, ed. by T. W. Sanders. Cr. 8vo. 158 pp. Illus. 1904. Collingridge, 2s. 6d.

ROSES AND THEIR CULTURE, by W. D. Prior. Gl. 8vo. 3rd ed. 180 pp. Coloured Plate. 1892. Routledge, 3s. 6d.

THE ROSE: Cultivation, History, Family, Characteristics, etc., by H. B. Ellwanger. 12mo. Heinemann, 5s.

Shrubs.

BEAUTIFUL FLOWERING TREES and Shrubs, by J. Weathers. Cr. 8vo. 162 pp. 1903. Simpkin, 6s.

BOOK OF CLIMBING PLANTS AND Wall Shrubs, by S. Arnott. Cr. 8vo. 136 pp. 1902. Lane, 2s. 6d.

FLOWERING TREES AND SHRUBS, by H. Hoare. 4to. 168 pp. 1902. A. L. Humphreys, 7s. 6d.

ORNAMENTAL SHRUBS, by L. D. Davis (U.S.A.). Imp. 8vo. 338 pp. Plates and Illus. 1899. Putnam, 15s.

Vegetables.

AMATEUR'S KITCHEN GARDEN, Frame Ground and Forcing Pit, by S. Hibberd. Cr. 8vo. 306 pp. Illus. Coloured Plate. 1893. Collingridge, 3s. 6d.

ASPARAGUS, BEANS, PEAS, ETC., for Profit, ed. by T. W. Sanders. Cr. 8vo. 1903. Collingridge, 1s.

ASPARAGUS CULTURE, by J. Barnes and W. Robinson. Globe 8vo. 84 pp. 8 Illus. Routledge, 1s.

BOOK OF ASPARAGUS, CELERY, Salsafy, Seakale, by C. Ilott. Cr. 8vo. 120 pp. 1901. Lane, 2s. 6d.

BOOK OF VEGETABLES: Gardening and Cookery, by G. Wythes. Cr. 8vo. 118 pp. 1902. Lane, 2s. 6d.

BRITISH EDIBLE FUNGI: How to Distinguish and How to Cook Them, by M. C. Cooke. Cr. 8vo. 237 pp. 12 Coloured Plates. 1891. Kegan Paul, 7s. 6d.

CABBAGE, CAULIFLOWER AND Allied Vegetables, by C. L. Allen (U.S.A.). 12mo. 125 pp. Illus. 1901. Gay & Bird, 2s. 6d.

CALIFORNIA VEGETABLES IN GARDEN and Field, by E. J. Wickson (U.S.A.). Large 8vo. 336 pp. Gay & Bird, 10s.

EDIBLE AND POISONOUS MUSHROOMS: What to Eat and What to Avoid, by M. C. Cooke, M.A., LL.D. Cr. 8vo. 126 pp. 18 Coloured Plates. 1894. S. P. C. K., 3s. 6d.

ESCULENT FUNGUSES OF ENGLAND: Their Uses, Cooking, Preserving, etc., by C. D. Badham, M.D.; ed. by F. Currey. Large cr. 8vo. 2nd ed. 152 pp. 12 Coloured Plates. 1863. Lovell Reeve, 12s.

FORCING BOOK: MANUAL OF THE Cultivation of Vegetables in Glass Houses, by L. H. Bailey (U.S.A.). Gl. 8vo. 266 pp. 88 Illus. 1900. Macmillan, 4s.

FUNGI: THEIR NATURE, INFLUENCE, Uses, etc., by M. C. Cooke. Cr. 8vo. 4th ed. Illus. Kegan Paul, 5s.

MUSHROOM BOOK, by N. L. Marshall. Super royal 8vo. 167 pp. 24 Illus. 24 Coloured Plates. 1901. Doubleday, Page & Co., N.Y., $3.

MUSHROOMS, CUCUMBERS, SALADS, Tomatoes, etc., for Profit, ed. by T. W. Sanders. Cr. 8vo. Illus. 1903. Collingridge, 1s.

MUSHROOMS OF AMERICA: Edible and Poisonous, by T. Taylor, M.D. 8vo. Illus. A. R. Taylor, Washington, $3.

PICTORIAL PRACTICAL VEGETABLE Growing, by W. P. Wright. Cr. 8vo. 100 Illus. 152 pp. 1902. Cassell, 1s.

POTATO IN FIELD AND GARDEN, by W. J. Malden. Cr. 8vo. 217 pp. Illus. 1895. *Mark Lane Express*, 1s. 6d.

POTATOES AND HOW TO GROW THEM, by J. Pink. Cr. 8vo. Lockwood, 2s.

VEGETABLES FOR PROFIT, by T. W. Sanders. Vol. I. Green Crops and Herbs. Vol. II. Roots, Bulbs and Tubers. Cr. 8vo. Illus. 1903. Vol. III. Asparagus, Rhubarb, Peas, etc. Vol. IV. Mushrooms, Cucumbers, Tomatoes, etc. Collingridge, 1s. each.

SECTION 28.

GAS.

Acetylene.

ACETYLENE: CANTOR LECTURE, by V. B. Lewes. Society of Arts, 1s.

ACETYLENE: HANDBOOK FOR THE Student and Manufacturer, by Vivian B. Lewes. 1000 pp. 228 Illus. 1900. Constable, 31s. 6d.

ACETYLENE: PRINCIPLES OF ITS Generation and Use for Light, Heat, Power, by F. H. Leeds. Cr. 8vo. 285 pp. 1903. Griffin, 5s.

EXPERIMENTS ON THE PRESSURES and Explosive Efficiency of Mixtures of Acetylene and Air, by F. Grover. Cr. 8vo. 2nd ed. 22 pp. 8 Illus. 1898. Jowett & Sowry, Leeds, 1s.

LIGHTING BY ACETYLENE, by F. Dye. Cr. 8vo. 200 pp. 1902. Spon, 6s.

LIGHTING BY ACETYLENE: GENERATORS, Burners and Electric Furnaces, by W. E. Gibbs. 12mo. 141 pp. 64 Illus. 1898. Van Nostrand, N.Y., $1.50.

REPORT OF THE COMMITTEE ON the Exhibition of Acetylene Generators at the Imperial Institute, 1898. 34 pp. Society of Arts, 1s.

Gas Fitting.

GAS AND GAS FITTINGS, by H. F. Hills. Cr. 8vo. 1902. Whittaker, 5s.

GAS FITTER'S GUIDE, with Details of Fittings, by J. Eldridge. 12mo. 3rd ed. Spon, 1s.

GAS FITTING, by J. Black. Cr. 8vo. 130 Illus. Lockwood, 2s. 6d.

HANDBOOK OF PRACTICAL GAS Fitting, by W. Grafton. Cr. 8vo. 328 pp. 143 Illus. 1901. Batsford, 5s.

PRACTICAL GAS FITTING, ed. by P. N. Hasluck. Cr. 8vo. 160 pp. 120 Illus. 1900. Cassell, 2s.

PRACTICAL GAS FITTING. Large cr. 8vo. 116 pp. 54 Illus. D. Williams Co., N.Y., $1.

Gas Lighting.

COMPARISON OF ENGLISH AND French Methods of Ascertaining Illuminating Power of Coal Gas, by A. J. van Eijudhoven. Cr. 8vo. 98 pp. 8 Illus. 1 Plate. 1897. Spon, 4s.

CONSUMER'S HANDBOOK OF LAW Relating to Gas, Water and Electric Lighting, by L. Duckworth. Cr. 8vo. 2nd ed. 1903. E. Wilson, 1s. 6d.

ELECTRIC GAS LIGHTING, by H. S. Norrie. 16mo. 1902. Spon, 2s.

GAS LIGHTING AND GAS FITTING, by W. P. Gerhard (U.S.A.). 18mo. 2nd ed. 190 pp. Spon, 2s.

LAW OF GAS, WATER AND ELECTRIC Lighting, by Michael and Will. Royal 8vo. 5th ed. 1901. Butterworth, 35s.

Gas Lighting, *continued.*

PRACTICAL PHOTOMETRY: Measurement of Light, by W. J. Dibdin. Demy 8vo. 227 pp. Illus. 1889. W. King, 7s. 6d.

PUBLIC LIGHTING BY GAS AND Electricity, by W. J. Dibdin. Royal 8vo. 558 pp. 1902. Sanitary Pub. Co., 21s.

SCIENCE AND PRACTICE OF LIGHTING as Applied to Streets, Open Spaces and Interiors, by W. H. Y. Webber. Demy 8vo. 95 pp. 1892. W. King, 3s. 6d.

Gas Supply.

ACTS RELATING TO THE SUPPLY of Gas and Water by Companies and Local Authorities, compiled by J. Reeson. 1902. Butterworth, 21s.

ANALYSES OF SCOTCH COALS, Cannel, Splint, Shale, etc., Used in Making Gas, by W. Wallace. 4to. 10 pp. W. King, 1s. paper.

APPARATUS AND FITTINGS FOR Gasworks, by F. Colyer. 8vo. Plates. Spon, 12s. 6d.

CHEMISTRY OF GAS MANUFACTURE, by W. J. A. Butterfield. Large cr. 8vo. 3rd ed. Vol. I. Materials, Processes. 31 Illus. 268 pp. 1904. Griffin, 7s. 6d.

FLOWS OF GASES AND PROPORTIONING Gas Mains, by F. Southwell Cripps. Demy 4to. 16 pp. 4 Diagrams and Text. 1892. W. King, 7s. 6d.

GAS ANALYST'S MANUAL, by J. Abady. 8vo. 600 pp. 102 Illus. Plates. 1902. Spon, 18s.

GAS AND WATERWORKS DIRECTORY and Statistics. Cr. 8vo. 529 pp. Annual. Hazell, 10s.

GAS COMPANIES' ACCOUNTS. Demy 8vo. 1902. Gee & Co., 5s.

GAS COMPANIES' BOOK-KEEPING, by J. H. Brearley and B. Taylor. Med. 8vo. 293 pp. Illus. 1900. W. King, 12s. 6d.

GAS ENGINEERS' LABORATORY Handbook, by J. Hornby. Cr. 8vo. 2nd ed. 328 pp. 63 Illus. Tables. 1902. Spon, 6s.

GASEOUS FUEL, INCLUDING WATER Gas: Its Production and Application, by B. H. Thwaite. Cr. 8vo. 50 pp. 1889. Whittaker, 1s. 6d.

GASHOLDER AND TANK CONSTRUCTION, by F. S. Cripps. Med. 8vo. 34 pp. Illus. 1898. W. King, 3s. 6d.

GAS LIGHTING: Vol. III. of Groves and Thorp's Chemical Technology, by Charles Hunt. Royal 8vo. 340 pp. 292 Illus. 2 Plates. 1900. Churchill, 18s.

GAS MANUFACTURE, for Workmen and Students, by J. Hornby. Small post 8vo. 2nd ed. 65 Illus. 1900. Bell, 5s.

GASWORKS: THEIR CONSTRUCTION and Arrangement, by S. Hughes. 12mo. 9th ed. 420 pp. 1904. Lockwood, 6s.

GUIDE-FRAMING OF GASHOLDERS: Strains in Structures connected with Gasworks, by F. S. Cripps. Demy 8vo. 119 pp. 1889. W. King, 6s.

HANDBOOK FOR GAS ENGINEERS and Managers, by T. Newbigging. Fcp. 4to. 6th ed. 535 pp. 239 Illus. 1 Plate. 1898. W. King, 21s.

HANDBOOK OF TECHNICAL GAS Analysis, by C. Winkler, Ph.D.; 2nd English ed. trans. by G. Lunge, Ph.D. 8vo. 185 pp. 81 Illus. 1902. Gurney & Jackson, 10s. 6d.

INFLAMMABLE GAS AND VAPOUR in the Air: Detection and Measurement, by F. Clowes, D.Sc.; with Chapter on Measurement of Petroleum Vapour, by B. Redwood. Cr. 8vo. 206 pp. 49 Illus. 1896. Lockwood, 5s.

MANUAL OF THE MANUFACTURE of Gas from Tar, Oil and other Liquid Hydrocarbons, and Extracting Oil from Sewage Sludge, by W. Burns. Cr. 8vo. 68 pp. 3 Plates. 1887. Spon, 5s.

MANUAL FOR GAS ENGINEERING Students, by D. Lee. 18mo. 1885. Spon, 1s.

MANUFACTURE OF COAL GAS Diagram for Schools. 36 in. × 26 in. Bacon, 4s. 6d.

MEMORANDUM ON THE MOND GAS Scheme: Staffs Mond Gas Company's Act, 1901, by F. N. Keen. Demy 8vo. 20 pp. 1901. Walter King, 1s. paper.

MODERN APPLIANCES IN GAS Manufacture, by F. W. Stevenson. Cr. 4to. 80 pp. Illus. 1901. Simpkin, 5s.

MODERN METHODS OF SAVING Labour in Gasworks, by C. E. Brackenbury. Med. 8vo. 64 pp. 56 Illus. 1900. P. S. King, 3s. 6d.

NOTES ON THE LITHOLOGY OF GAS Coals: Commercial Analysis, by J. Paterson. Demy 8vo. 70 pp. 1887. W. King, 3s. limp.

PRACTICAL HINTS ON THE WORKING and Construction of Regenerator Furnaces: Gaseous Firing for Retort Settings in Gasworks, by M. Graham. Fcp. 8vo. Spon, 3s.

PRACTICAL TREATISE ON THE Manufacture and Distribution of Coal Gas, by W. Richards. Demy 4to. Illus. Spon, 28s.

TABLE FOR ASCERTAINING THE True Illuminating Power of a Gas Deduced from Pole's Law, by W. J. Dibdin. 30 in. × 22 in. 1903. Sanitary Pub. Co., 21s.

TREATISE ON THE COMPARATIVE Commercial Values of Gas Coals and Cannels, by D. A. Graham. Large cr. 8vo. 100 pp. 3 Plates. 1882. Spon, 4s. 6d.

VALUATION OF GAS, ELECTRICITY and Waterworks for Assessment Purposes, by T. & W. Newbigging. Demy 8vo. 120 pp. 1899. W. King, 5s.

SECTION 29.

GLASS.

Glass Blowing and Making.

CHEMICAL ANALYSIS FOR GLASS-MAKERS, by E. C. Uhlig. 8vo. 1904. Kaufmann & Gauding, Pittsburgh, $5.

GLASS WORKING BY HEAT AND Abrasion, ed. by P. N. Hasluck. Cr. 8vo. 160 pp. 300 Illus. 1900. Cassell, 1s.

JENA GLASS AND ITS SCIENTIFIC and Industrial Applications by Dr. H. Hovestadt; trans. and ed. by J. D. Everett, M.A. 8vo. 402 pp. 1902. Macmillan, 15s.

MANUFACTURE OF GLASS DIAGRAM for Schools. 36 in. × 26 in. Bacon, 4s. 6d.

METHODS OF GLASS BLOWING AND of Working Silica in the Oxy-gas Flame, by W. A. Shenstone. Cr. 8vo. 4th ed. 106 pp. Illus. 1902. Longmans, 2s. 6d.

RECIPES FOR FLINT GLASS-MAKING, by a British Glass Master and Mixer; 60 Recipes for Crystal, Demi-crystal and Coloured Glass. Cr. 8vo. 1901. Scott, Greenwood, 10s. 6d.

PRINCIPLES OF GLASS-MAKING, for Workmen and Students, by H. J. Powell. Small post 8vo. 186 pp. 8 Illus. 1883. Bell, 3s. 6d.

Glass Staining, Painting, Glazing, etc.

BOOKE OF SUNDRY DRAWGHTES (Leaded Glass), for Glaziers, by W. Gidde. 4to. 100 Illus. Published in 1615; Reissued in 1898 by Leadenhall Press, 6s.

GLASS PAINTING, by F. Miller. Cr. 8vo. 72 Illus. E. Menken, 5s.

GLASS STAINING AND THE ART OF Painting on Glass, from German of Dr. Gessert and E. O. Furnberg. Cr. 8vo. Lockwood, 2s.

HANDBOOK ON GLASS PAINTING, Staining and Fret-lead Glazing, by E. R. Suffling. Cr. 8vo. 102 pp. Illus. 1890. Lechertier Barbe, 1s.

HISTORY OF DESIGN IN PAINTED Glass, by N. H. J. Westlake. 4 vols. Vol. I. Royal 4to. Vol. II. 21s. Vol. III. 30s. Vol. IV. 34s. 4 vols, £5 10s. 1879-1894. J. Parker & Co.

PAINTING ON GLASS AND PORCELAIN and Enamel Painting, from German of F. Herrmann. Demy 8vo. 300 pp. 18 Illus. 1897. Scott, Greenwood, 10s. 6d.

STAINED GLASS, by L. F. Day. Large cr. 8vo. 67 Illus. 1903. Chapman & Hall, 4s.

TREATISE ON THE ART OF GLASS Painting, by E. R. Suffling. Demy 8vo. 140 pp. 37 Illus. 1 Coloured Plate. 1902. Scott, Greenwood, 7s. 6d.

WINDOWS: A BOOK ABOUT Stained and Painted Glass, by L. F. Day. Large 8vo. 400 pp. 250 Illus. 1897. Batsford, 21s.

Sheet Glass.

GLASS DEALER'S READY RECKONER: Tables of Superficial Measurement, compiled by J. Thorne. Med. 8vo. 131 pp. 1884. Pilkington Brothers, Limited, St. Helens, 2s. 6d.

SHEET AND PLATE-GLASS CUTTERS' Assistant: Tables of Superficial Measurement of Squares. Royal 8vo. 280 pp. Pilkington Brothers, Limited, St. Helens, 7s. 6d.

SECTION 30.

GLUES, INKS, PASTES.

Glue, Gelatine.

BONE PRODUCTS AND MANURES: Manufacture of Fat, Glue, Animal Charcoal, Size, Gelatine and Manures, by T. Lambert. Demy 8vo. 162 pp. 21 Illus. 1901. Scott, Greenwood, 7s. 6d.

GLUE AND GLUE TESTING, by S. Rideal, D.Sc. Demy 8vo. 144 pp. 14 Illus. 1900. Scott, Greenwood, 10s. 6d.

MANUFACTURE OF GLUE AND Gelatine. Cr. 8vo. *National Provisioner*, N.Y., $5.

PRACTICAL TREATISE ON THE RAW Materials: Materials and Fabrication of Glue, Cements, Pastes, etc., by F. Dawidowsky; trans. from German. 12mo. 297 pp. 35 Illus. Baird, Philadelphia, $2.50.

SIZING INGREDIENTS, SIZE MIXING and Sizing, by H. Monie. Demy 8vo. 66 pp. 1901. Simpkin, 2s. 6d.

Inks, Pastes, Sealing Waxes.

CEMENTS, PASTES, GLUES AND Gums, by H. C. Standage. Cr. 8vo. 3rd ed. 164 pp. Lockwood, 2s.

INK MANUFACTURE: WRITING, Copying, Lithographic, Marking, Stamping and Laundry Inks, trans. from German of S. Lehner. Cr. 8vo. 162 pp. 3 Illus. 1902. Scott, Greenwood, 5s.

OIL COLOURS AND PRINTING INKS, trans. from German by L. E. Andés. Cr. 8vo. 1902. Scott, Greenwood, 5s.

PRACTICAL TREATISE ON THE Manufacture of Starch, Glucose, Starch-sugar and Dextrine, by J. Frankel; ed. by R. Hutter. Royal 8vo. 344 pp. 58 Illus. 1881. Baird, Philadelphia, $3.50.

SEALING WAXES, WAFERS AND other Adhesives for the Household, Office, Workshop and Factory, by H. C. Standage. Cr. 8vo. 96 pp. 1902. Scott, Greenwood, 5s.

TANNINS, WRITING INKS, ETC.: Vol. III. of Allen's Commercial Analysis. Demy 8vo. 3rd ed. 600 pp. 1901. Churchill, 18s.

(**Gymnastics.** See section 53.)

(**Highways.** See section 59.)

SECTION 31.

HORSES.

General.

BRITISH THOROUGHBRED HORSE: His History and Breeding, with an Exposition of the Figure System, by W. Allison, M.A. Royal 8vo. 182 pp. 10 Illus. 1 Coloured Plate. 1901. Grant Richards, 42s.

FAMILY HORSE: STABLING, CARE and Feeding, by G. A. Martin (U.S.A.). Cr. 8vo. 153 pp. 73 Illus. and Plates. 1889. Kegan Paul, 3s. 6d.

HARNESS HORSE, by Sir W. Gilbey. Demy 8vo. 3rd ed. 44 pp. Illus. 1898. Vinton, 2s.

HEAVY HORSES: BREEDS AND Management, by H. Biddell, etc. Demy 8vo. 3rd ed. 219 pp. 29 Illus. 1898. Vinton, 3s. 6d.

HORSE IN THE STABLE AND THE Field, by J. H. Walsh: Chapter on American Trotting Horses, by E. Harvey, M.D. 12mo. Illus. H. T. Coates & Co., Philadelphia, $1.

HORSES AND STABLES, by Sir F. Fitzwygram. Demy 8vo. 5th ed. 568 pp. 1901. Longmans, 3s.

HORSES, ASSES, ZEBRAS, MULES and Mule-breeding, by W. B. Tegetmeier and C. L. Sutherland. Demy 8vo. 166 pp. 30 Plates. 1895. H. Cox, 5s.

HORSES ON BOARD SHIP: GUIDE to their Management, by M. H. Hayes. Cr. 8vo. 284 pp. 24 Illus. 1902. Hurst & Blackett, 3s. 6d.

LIGHT HORSES: BREEDS AND Management, by W. C. A. Blew, etc. Demy 8vo. 226 pp. 28 Illus. 1898. Vinton, 3s. 6d.

OUR FRIEND THE HORSE, by F. T. Barton, M.R.C.V.S. Demy 8vo. 276 pp. Illus. 1898. Dean, 6s.

POINTS OF THE HORSE, CONFORMATION, Movements, Breeds, etc., by M. H. Hayes. 8vo. 3rd ed. 764 pp. 1904. Hurst & Blackett, 34s.

PRACTICAL HORSE-KEEPER, by G. Fleming, LL.D. Cr. 8vo. 264 pp. Illus. Upcott Gill, 3s. 6d.

PRACTICAL TREATISE ON THE LAW of Horses, by M. D. Hanover (U.S.A.). 8vo. 2nd ed. R. Clarke Co., Cincinnati, $4.

THE HORSE: FROM BIRTH TO OLD Age, by S. Buckman-Linard. Cr. 8vo. 1902. R. A. Everett, 3s. 6d.

THE HORSE IN ART AND NATURE, for Artists and Horse Lovers, by C. Brown, M.A. Obl. 4to. 210 pp. Plates. Chapman & Hall, 20s.

THE HORSE IN STABLE AND Field, by J. H. Walsh; revised by H. Leeny. Med. 8vo. 15th ed. 698 pp. 132 Illus. 1899. Routledge, 21s.

TRAINING AND HORSE MANAGEMENT in India, by M. H. Hayes. Cr. 8vo. 5th ed. Hurst & B., 6s.

TRANSPORT OF HORSES BY SEA, with Folding Plan, by E. C. Martin. 12mo. 50 pp. 1901. Thacker, 2s. 6d.

Breeding and Breaking Horses.

BREAKING AND RIDING, WITH Military Commentaries, by J. Fillis; trans. by M. H. Hayes. Med. 8vo. 359 pp. 70 Illus. 1902. Hurst & Blackett, 16s.

BREAKING AND TRAINING HORSES, by F. T. Barton. Illus. Cr. 8vo. 198 pp. 1903. Everett, 6s.

HINTS ON COLT-BREAKING, by W. M. Hutchison. Cr. 8vo. 117 pp. 25 Illus. 1892. Chatto, 3s. 6d.

HORSE BREEDING AND MANAGEMENT, by F. Adye. Cr. 8vo. 350 pp. 1903. Everett, 10s. 6d.

HORSE BREEDING AND REARING IN India, by Major J. Humfrey. Cr. 8vo. Thacker, 7s. 6d.

HORSE BREEDING FOR FARMERS, by A. E. Pease. Cr. 8vo. 133 pp. 1894. Macmillan, 2s. 6d.

HORSE BREEDING IN ENGLAND and India and Army Horses Abroad, by Sir W. Gilbey. Demy 8vo. 62 pp. Illus. 1901. Vinton, 2s.

ILLUSTRATED HORSE-BREAKING, by M. H. Hayes. Cr. 8vo. 2nd ed. 406 pp. 124 Illus. 1902. Hurst & Blackett, 12s.

Buying Horses.

EXAMINATION OF HORSES AS TO Soundness and Selection as to Purchase, by E. Sewell, M.R.C.V.S. 8 Col. Plates. 1898. Baillière, 5s.

HORSE BUYING AND MANAGEMENT for Amateurs, by H. E. Fawens. Cr. 8vo. 1903. Upcott Gill, 1s.

HORSE DENTITION: SHOWING How to Tell Exactly the Age of a Horse up to Thirty Years, by S. Galvayne. Cr. 8vo. Coloured Illus. 1902. R. A. Everett, 5s.

HOW TO BUY A HORSE, WITH Hints on Shoeing, etc., by F. J. Morgan. Cr. 8vo. 134 pp. Warne, 2s. 6d.

HOW TO CHOOSE A HORSE, OR Selection Before Purchase, by F. T. Barton. Cr. 8vo. 112 pp. 1901. Everett, 1s. 6d.

Horse-shoeing.

PRACTICAL HORSE-SHOEING, by G. Fleming, C.B., LL.D. Cr. 8vo. 10th ed. 136 pp. 37 Illus. 1900. Baillière, 2s. 6d.

STRUCTURE AND FUNCTIONS OF the Horse's Foot with Reference to Horse-shoeing, by J. A. W. Dollar and A. Wheatley. Demy 8vo. 438 pp. 300 Illus. 70 Plates. 2 Coloured Plates. 1898. D. Douglas, Edinburgh, 15s.

TEXT-BOOK OF HORSE-SHOEING FOR Horse-shoers and Veterinarians, by A. Lungwitz; trans. by J. W. Adams (U.S.A.) Large cr. 8vo. 168 pp. 141 Illus. 1898. Lippincott, 7s. 6d.

Riding and Driving.

DRIVING FOR PLEASURE, or, The Harness Stable and Its Appointments, by F. T. Underhill. Imp. 8vo. 124 Plates. Heinemann, 28s.

Riding and Driving, *continued.*

HINTS ON DRIVING: PRACTICAL Treatise, by C. M. Knight. Cr. 8vo. 2nd ed. 212 pp. 40 Illus. 1895. Bell, 3s. 6d.

HORSEWOMAN: SIDE-SADDLE RIDING, by Mrs. Hayes. Demy 8vo. 2nd ed. 482 pp. 148 Illus. 1903. Hurst & Blackett, 12s.

MODERN HORSEMANSHIP: Original Method of Teaching, by E. L. Anderson. Demy 8vo. 5th ed. 60 Illus. D. Douglas, Edinburgh, 21s.

RIDING FOR LADIES, WITH HINTS on the Stable, by Mrs. P. O'Donoghue. Imp. 16mo. 345 pp. 75 Illus. 1887. Thacker, 10s. 6d.

Stable Management.

GENTLEMAN'S STABLE GUIDE, by R. McClure, M.D., V.S. 16mo. Illus. H. T. Coates & Co., Philadelphia, $1.

GROOM'S GUIDE: HIS DUTIES AND How to Perform Them, by F. T. Barton. Cr. 8vo. 166 pp. R. A. Everett, 2s.

HOW TO FEED A HORSE, by G. Armatage. Cr. 8vo. 132 pp. Warne, 1s.

NOTES ON STABLE MANAGEMENT and the Prevention of Disease Among Horses in India, by J. A. Nunn. Cr. 8vo. 2nd ed. 112 pp. 1897. Thacker, 2s.

SOILING, ENSILAGE AND STABLE Construction, by F. S. Peer. 12mo. 1900. M. F. Mansfield & Co., N.Y., $1.25.

STABLE MANAGEMENT AND EXERCISE, by M. H. Hayes. Demy 8vo. 2nd ed. 424 pp. 62 Illus. 1900. Hurst & Blackett, 12s.

STABLE SANITATION AND CONSTRUCTION, by T. E. Coleman. Cr. 8vo. 183 Illus. Spon, 6s.

THROUGH THE STABLE AND SADDLE-ROOM: Practical Guide for Management, by A. T. Fisher. Cr. 8vo. 3rd ed. 342 pp. 1896. Macmillan, 6s.

(*Veterinary Books.* See section 69.)

SECTION 32.

HOSPITALS, NURSING.

Hospitals.

FURNISHINGS AND APPLIANCES OF a Cottage Hospital; an Actual Inventory, by S. Holland. Cr. 8vo. 1897. Scientific Press, Ltd., 6d.

HEALTHY HOSPITALS: Some Points of Hospital Construction, by Sir D. Galton. Demy 8vo. 287 pp. 49 Illus. 1893. Frowde, 10s. 6d.

HOSPITALS AND ASYLUMS OF THE World: Their History, Construction, Management and Legislation, by Sir H. Burdett. Royal 8vo. 4 vols. Portfolio of Plans. £8 8s. Vol. I. Asylums, History and Administration. 701 pp. 1891. Vol. II. Asylum Construction. 348 pp. 1891. Vol. III. Hospital Administration. 944 pp. 1893. Vol. IV. Hospital Construction. 461 pp. Scientific Press, Ltd.

HOSPITALS, INFIRMARIES AND DISPENSARIES: Construction, Interior Arrangement and Management, by F. Oppert, M.D. Royal 8vo. 2nd ed. 278 pp. 74 Illus. 1883. Churchill, 12s.

LEGAL HANDBOOK FOR HOSPITAL Authorities, by L. S. Bristowe. Cr. 8vo. 164 pp. 1901. Scientific Press, Ltd., 2s. 6d.

SMALL HOSPITALS, ESTABLISHMENT and Maintenance, by A. Worcester, A.M., M.D., with Suggestions for Hospital Architecture, by W. Atkinson (U.S.A.). Cr. 8vo. Chapman, 5s. 6d.

UNIFORM SYSTEM OF ACCOUNTS, for Hospitals and Public Institutions, Orphanages, etc., by Sir H. Burdett. Royal 8vo. New ed. 114 pp. 1903. Scientific Press, Ltd., 4s.

First Aid.

FIRST AID TO THE INJURED, Six Ambulance Lectures, by Dr. F. Esmarch, trans. by H.R.H. Princess Christian. Post 8vo. 6th ed. 117 pp. 24 Illus. 1898. Smith, Elder, 2s.

FIRST AID TO THE INJURED, Emergency Book. Cr. 8vo. 1901. Simpkin, 3s. 6d.

FIRST AID TO THE INJURED AND Sick, Advanced Ambulance Handbook, by F. J. Warwick, B.A., M.B., and A. C. Tunstall, M.D. Sm. 8vo. 2nd ed. 200 Illus. J. Wright & Co., Bristol, 2s. 6d.

MANUAL OF FIRST AID, Text-book for Ambulance Classes, by J. A. Austin. Cr. 8vo. 216 pp. Illus. 1902. Low, 2s.

PRACTICAL FIRST AID, by W. Robertson. 16mo. 3rd ed. 192 pp. 67 Illus. 1902. A. Gardner, Paisley, 1s. 6d.

(**Ambulance.** See section 42).

Nursing.

ART OF COOKING FOR INVALIDS IN Home and Hospital, by F. B. Jack. Cr. 8vo. 3rd ed. 214 pp. 1903. Jack, 2s.

GUIDE TO DISTRICT NURSES, by Mrs. D. Craven. Cr. 8vo. 140 pp. 1894. Macmillan, 2s. 6d.

GUIDE TO URINE TESTING, for Nurses, by M. Robinson, L.R.C.P. 12mo. J. Wright & Co., Bristol, 1s.

HANDBOOK FOR NURSES, by J. K. Watson. Cr. 8vo. 428 pp. 1902. Scientific Press, Ltd., 5s.

HANDBOOK OF INVALID COOKING, by M. A. Boland. 12mo. 318 pp. Century Co., N.Y., $2.

HANDBOOK OF NURSING. Vol. I. Medical and Surgical Nursing. Vol. II. Monthly Nursing. Vol. III. Family Hygiene. Cr. 8vo. 266 pp. (U.S.A.). 1895. Lippincott, 4s.

INVALID COOKERY, by M. Davies. Cr. 8vo. 142 pp. Weldon, 6d.

LECTURES ON MEDICAL NURSING, by. J. W. Anderson, M.D. Fcp. 8vo. 6th ed. MacLehose, Glasgow, 2s. 6d.

MATERIA MEDICA FOR NURSES, by L. L. Doch (U.S.A.). Cr. 8vo. 4th ed. 224 pp. 1900. Putnam, 6s.

MATERIA MEDICA FOR NURSES, by E. A. M. Stoney (U.S.A.) 12mo. 300 pp. Saunders & Co., 8s.

NOTES ON PHARMACY AND DISPENSING, for Nurses. Cr. 8vo. 101 pp. 1899. Scientific Press, Ltd., 1s.

NURSE'S GUIDE TO MASSAGE, by S. Hyde, L.R.C.P., M.R.C.S. Cr. 8vo. 3rd ed. 62 pp. 13 Illus. 1894. J. Heywood, 3s. 6d.

NURSE'S HANDBOOK OF COOKERY, by E. M. Worsnop. Cr. 8vo. 2nd ed. 106 pp. 1898. A. & C. Black, 1s. 6d.

NURSING, GENERAL, MEDICAL AND Surgical, by W. J. Hadley. Cr. 8vo. 336 pp. 1902. Churchill, 3s. 6d.

NURSING: ITS THEORY AND PRACTICE, by P. G. Lewis, M.D. Cr. 8vo. New ed. 428 pp. 91 Illus. 1900. Scientific Press, Limited, 3s. 6d.

NURSING PROFESSION: HOW AND Where to Train, ed. by Sir H. Burdett. Cr. 8vo. 350 pp. Annual. Scientific Press, Ltd., 2s.

PRACTICAL NURSING, by J. Stewart and H. E. Cuff. Vol. I. Cr. 8vo. 3rd ed. 258 pp. Vol. II. Cr. 8vo. 210 pp. 1903. Blackwood & Sons, 3s. 6d. each.

PRACTICAL POINTS IN NURSING, for Nurses in Private Practice, by E. A. M. Stoney (U.S.A.). 3rd ed. 456 pp. 73 Illus. 9 Coloured Plates. 1903. Saunders & Co., 7s. 6d.

PRINCIPLES TO BE OBSERVED IN the Artificial Feeding of Infants, by W. B. Cheadle. Cr. 8vo. 5th ed. 284 pp. 1902. Smith, Elder, 5s.

SICKROOM COOKERY AND HOSPITAL Diet, by M. Earle. Cr. 8vo. 2nd ed. 1901. Spottiswoode & Co., 3s. 6d.

SURGICAL TECHNIQUE FOR NURSES, by E. A. M. Stoney (U.S.A.). 12mo. 200 pp. Saunders & Co., 5s.

TEXT-BOOK FOR TRAINING SCHOOLS for Nurses; Physiology, Hygiene, Principles and Practice of Nursing, by P. M. Wise, M.D. (U.S.A.). Cr. 8vo. 2 vols. Vol. I. 248 pp. 68 Illus. 1896. Vol. II. 327 pp. Illus. 1896. Putnam, 5s. each.

TEXT-BOOK OF NURSING FOR HOME and Hospital Use, by C. S. Weeks-Shaw. Cr. 8vo. 2nd ed. 344 pp. Illus. 1901. E. Arnold, 3s. 6d.

SECTION 33.

HOUSE DECORATION.

General.

AMERICAN MURAL PAINTING: DESCRIPTION of Mural Decoration in Churches and Public Buildings, by Pauline King. Med. 8vo. Illus. 1901. Noyes, Platt & Co., Boston, U.S.A., $3.

APARTMENTS OF THE HOUSE: Their Arrangement, Furniture and Decoration, by J. Crouch and E. Butler. Fcp. 4to. 100 Illus. Plates. M. F. Mansfield & Co., N.Y., $2.75.

COLOUR STUDIES: DECORATIVE, for Painters and Decorators. 2nd ed. *Journal of Decorative Art*, Manchester, 10s.

DECORATION OF HOUSES, by Edith Wharton and O. Codman (U.S.A.). Large sq. 8vo. 204 pp. 56 Plates. 1901. Batsford, 12s. 6d.

HISTORY OF DECORATIVE ART, by W. N. Brown. Cr. 8vo. 96 pp. 1900. Scott, Greenwood, 2s. 6d.

HOUSE DECORATING AND PAINTING, by W. N. Brown. Cr. 8vo. 150 pp. 1900. Scott, Greenwood, 3s. 6d.

HOUSE DECORATION: Comprising Whitewashing, Paperhanging, Painting, etc., ed. by P. N. Hasluck. Pott 8vo. 160 pp. 79 Illus. 1901. Cassell, 1s.

HOUSE PAINTING, GRAINING, Marbling and Sign-writing, by E. A. Davidson. Cr. 8vo. 8th ed. Coloured Plates. Lockwood, 6s.

INTERIOR DECORATION, by A. W. Brunner and T. Tryon. 4to. 2nd ed. 65 Illus. Comstock, N.Y., $1.50.

INTERIOR DECORATION, by F. Miller. Cr. 8vo. 3rd ed. 146 pp. 71 Illus. E. Menken, 5s.

MANUAL OF DECORATIVE COMPOSITION, for Designers and Decorators, by H. Mayeux; trans. by J. Gonino. Cr. 8vo. 3rd ed. 310 pp. 267 Illus. 1898. Virtue, 6s.

MANUAL OF HOUSE PAINTING, Marbling and Sign-writing, by E. A. Davidson. 12mo. Comstock, N.Y., [illegible]

MODERN MURAL DECORATION, by A. Leys Baldry. Cr. 4to. 200 pp. 66 Illus. 4 Coloured Plates. 1902. Newnes, 12s. 6d.

MODERN WALL DECORATION, by W. G. Sutherland. 4to. 99 pp. Text. 12 Coloured Plates. 1893. Simpkin, 21s.

MURAL PAINTING, by F. H. Jackson. Cr. 8vo. 200 pp. 1904. Sands, 5s.

PAINTED WALL DECORATION, 8 Sheets of Working Drawings for Decorators. *Journal of Decorative Art*, Manchester, 5s.

PAINTER, GILDER AND VARNISHER'S Companion, by W. T. Brannt. Cr. 8vo. 395 pp. Illus. Baird, Philadelphia, $1.50.

PAINTER'S ENCYCLOPÆDIA, by F. B. Gardner. 427 pp. 158 Illus. Baird, Philadelphia, $2.

PAINTING AND DECORATING, by W. Pearce. Cr. 8vo. 2nd ed. 320 pp. 88 Illus. 4 Coloured Plates. 30 Plain Plates. 1902. Griffin, 12s. 6d.

PAPER HANGER, PAINTER, GRAINER and Decorator's Assistant. Cr. 8vo. 205 pp. 100 Illus. 1879. Simpkin, 2s. 6d.

PRACTICAL DECORATOR AND ORNAMENTIST, by G. A. Audsley, LL.D., F.R.I.B.A., and M. Audsley. Demy folio. 100 Coloured Plates. Gresham Pub. Co., 75s.

PRACTICAL MANUAL OF HOUSE Painting, Graining, Marbling and Sign-writing, by E. A. Davidson. 12mo. 394 pp. Baird, Philadelphia, $2.

REPAIRS: HOW TO MEASURE AND Value Them, by G. Stephenson. Cr. 8vo. 2nd ed. 99 pp. 1899. Batsford, 3s. 6d.

SHIP AND GENERAL PAINTER'S and Decorator's Handbook, by G. S. Welch. 12mo. 2nd ed. 82 pp. 1902. Simpkin, 1s. 6d.

WALL PAPERS AND WALL COVERINGS, by A. S. Jennings. Royal 8vo. 160 pp. 1903. Trade Papers Pub. Co., 7s. 6d.

WORKSHOP WRINKLES FOR DECORATORS, Painters, Paperhangers and others, by W. N. Brown. Cr. 8vo. 128 pp. 1901. Scott, Greenwood, 2s. 6d.

Lettering, Sign-writing.

ALBUM OF MONOGRAMS AND Ciphers, by H. Renoir. Cr. 4to. E. Menken, 10s. 6d.

ALPHABETS, PLAIN AND ORNAMENTAL, Ancient and Modern. Obl. 4to. 48 pp. Leadenhall Press, 1s.

AN ALPHABET, by W. Nicholson. 4to. 26 Coloured Plates. Heinemann, 5s.

GLOSSARY OF TERMS USED IN Heraldry. Post 8vo. 10th ed. 659 pp. 1000 Illus. 1894. J. Parker & Co., 10s. 6d.

MEDIÆVAL ALPHABETS AND Initials, by F. G. Delamotte. Small 4to. 4th ed. 21 Plates. Crosby Lockwood, 4s.

MODERN ALPHABETS, PLAIN AND Ornamental, by F. G. Delamotte. Obl. royal 8vo. 12th ed. 1896. Lockwood, 2s. 6d.

MODERN ORNAMENT. 12 Coloured Plates, 18 in. × 13 in., with Descriptive Matter. Illustrations for Ceilings, Walls, Doors. Panels, Borders, etc. 1902. *Journal of Decorative Art*, 21s.

MONOGRAMS IN THREE AND FOUR Letters, by J. G. Smith. Cr. 4to. 1903. E. Menken, 30s.

SIGN-WRITER, GLASS EMBOSSER, Gilder, Church Decorator and Heraldic Painter, by W. and W. G. Sutherland. 4to. 62 pp. 32 Plates. *Journal of Decorative Art*, Manchester, 42s.

SIGN-WRITING AND GLASS EMBOSSING, by J. Collingham. 12mo. 258 pp. Baird, Philadelphia, $1.50.

TEXT-BOOK ON PLAIN LETTERING, by H. S. Jacoby. Super royal 8vo. 82 pp. 48 Plates. *Engineering News*, N.Y., $3.

(**Design, Lettering and Ornament.** See section 4. **Ticket Writing.** See section 60.)

Marbling, Graining.

ART OF GRAINING AND IMITATING Woods. 20 folio Panels. *Journal of Decorative Art*, Manchester, 42s.

BOOK OF DELIGHTFUL AND STRANGE Designs of the Art of the Japanese Stencil Cutter, by A. W. Tuer. Sq. 8vo. 24 pp. text. 104 Designs. Leadenhall Press, 6s.

HOUSE PAINTING, GRAINING, Marbling and Sign Writing, by E. A. Davidson. Cr. 8vo. 8th ed. Lockwood, 6s.

MARBLE DECORATION AND TERMINOLOGY of British and Foreign Marbles, for Students, by G. H. Blagrove. Cr. 8vo. 122 pp. 28 Illus. 1888. Lockwood, 3s. 6d.

MARBLES AND MARBLING, for Decorators. 8 Panels in Colours. *Journal of Decorative Art*, Manchester, 5s.

PRACTICAL ARTS OF GRAINING and Marbling. Folio. 14 parts. Col. Plates and Text. 1903. Trade Papers Pub. Co., 4s. 6d. each.

PRACTICAL GRAINING AND MARBLING, ed. by P. N. Hasluck. Cr. 8vo. 160 pp. 79 Illus. 1902. Cassell, 2s.

SCHOOL OF PAINTING FOR IMITATION of Woods and Marbles, by A. B. and P. van Burg. Royal folio. 3rd ed. 24 Coloured Plates. 12 Plain Plates. Lockwood, 31s. 6d.

STENCILS AND STENCILLING, by W. G. Sutherland, W. Fourniss, etc. 4to. 36 pp. text. 18 Coloured Plates. Simpkin, 10s. paper.

(**French Polishing.** See section 10).

SECTION 34.

HYGIENE, PUBLIC HEALTH.

Bacteriology.

AGRICULTURAL BACTERIOLOGY, Relation of Bacteria to Agriculture, by H. W. Conn. 8vo. 1902. Rebman, 11s.

APPLIED BACTERIOLOGY, by T. H. Pearmain and C. G. Moor, M.A. Demy 8vo. 2nd ed. 498 pp. 119 Illus. Plates. 1898. Baillière, 12s. 6d. net.

ATLAS AND PRINCIPLES OF BACTERIOLOGY and Text-book, by K. B. Lehmann and R. O. Neumann, ed. by G. H. Weaver, M.D. Cr. 8vo. 2 vols. 512 pp. 600 Figs. 69 Plates. 1901. W. B. Saunders & Co., 10s. 6d. each.

Bacteriology, *continued.*

BACTERIA IN MILK AND ITS PRODUCTS, by H. W. Conn, Ph.D. 8vo. 290 pp. 43 Illus. 1903. Rebman, 6s.

BACTERIOLOGY, by F. C. Zapffe. Cr. 8vo. 1903. H. Kimpton, 7s. 6d.

BACTERIOLOGY, Laboratory Directions for Beginners, by V. A. Moore (U.S.A.). 12mo. 143 pp. Ginn, 4s. 6d.

BACTERIOLOGY OF MILK, by H. Swithinbank and E. Newman, M.D., D.P.H. Royal 8vo. 626 pp. 78 Illus. 1903. J. Murray, 25s.

DAIRY BACTERIOLOGY, by Dr. E. von Freudenreich. Cr. 8vo. 2nd ed. 115 pp. 1895. Methuen, 2s. 6d.

ELEMENTS OF BACTERIOLOGICAL Technique, by J. W. H. Eyre. Royal 8vo. 372 pp. 170 Illus. 1902. Saunders, 10s. 6d.

LABORATORY COURSE IN BACTERIOLOGY, for Agricultural and Industrial Students, by F. P. Gorham, A.M. (U.S.A.). Large cr. 8vo. 192 pp. 97 Illus. 1901. W. B. Saunders & Co., 5s.

LABORATORY GUIDE FOR THE BACTERIOLOGIST, by L. Frothingham, M.D.V. (U.S.A.) Illus. W. B. Saunders & Co., 3s.

MANUAL OF BACTERIOLOGY, by A. B. Griffiths, Ph.D. Cr. 8vo. 348 pp. 57 Ill. 1893. Heinemann, 5s.

MANUAL OF BACTERIOLOGY, by R. Muir, M.A., M.D., and J. Ritchie, M.A., M.D., B.Sc. 3rd ed. 548 pp. 150 Illus. 1902. Y. J. Pentland, 10s. 6d.

MANUAL OF BACTERIOLOGY, by H. U. Williams, M.D. (U.S.A.). Large cr. 8vo. 2nd ed. 290 pp. 89 Illus. 1901. Rebman, 7s. 6d.

PRACTICAL BACTERIOLOGY, trans. from W. Migula. Cr. 8vo. 240 pp. 9 Illus. 2 Plates. 1893. Sonnenschein, 6s.

PRINCIPLES OF BACTERIOLOGY, by A. C. Abbot. Cr. 8vo. 6th ed. 1902. H. K. Lewis, 12s. 6d.

PRINCIPLES OF BACTERIOLOGY, trans. from Dr. F. Hueppe (U.S.A.). Cr. 8vo. 467 pp. 26 Illus. 1899. Paul, 9s.

STRUCTURE AND FUNCTIONS OF Bacteria, trans. from A. Fischer. Royal 8vo. 197 pp. 29 Illus. 1900. Frowde, 8s. 6d.

SYNOPSIS OF BACTERIA, YEAST Fungi and Allied Species, by W. B. Grove. Cr. 8vo. 112 pp. 87 Illus. 1891. Chatto, 3s. 6d.

TEXT-BOOK OF BACTERIOLOGY, by E. M. Crookshank, M.B. Med. 8vo. 4th ed. 710 pp. 273 Illus. 22 Col. Plates. 1896. Lewis, 21s.

TEXT-BOOK OF BACTERIOLOGY, by G. M. Sternberg. Royal 8vo. 720 pp. 200 Illus. Coloured Plates. 1901. Churchill, 26s.

Baths.

BATHS AND BATHING: HOW TO Bathe, When to Bathe and When Not, by J. Farrar, M.D. 4th ed. Illus. J. Wright & Co., Bristol, 1s.

HYDROPATHIC ESTABLISHMENT AND Its Baths, by R. O. Allsop. 8vo. 8 Plates. 1891. Spon, 5s.

PUBLIC BATHS AND WASH-HOUSES, by R. O. Allsop. Demy 8vo. Illus. 1894. Spon, 6s.

TURKISH BATH: ITS DESIGN AND Construction for Public and Commercial Purposes, by R. O. Allsop. 8vo. Spon, 6s.

Cremation.

MODERN CREMATION: ITS HISTORY and Practice, by Sir H. Thompson, M.B. Cr. 8vo. 4th ed. 190 pp. Illus. 1901. Smith, Elder, 2s.

Disinfectants.

DISINFECTION AND DISINFECTANTS, by S. Rideal, D.Sc. (Lond.). Large 8vo. 2nd ed. 330 pp. 29 Illus. Diagram. 1898. Sanitary Pub. Co., 12s. 6d.

LESSONS IN DISINFECTION AND Sterilisation, by F. W. Andrews. Cr. 8vo. 1903. Churchill, 3s.

PRACTICAL GUIDE TO DISINFECTION, by M. J. Rosenau, M.D. Large cr. 8vo. 447 pp. 128 Illus. 1903. Rebman, 10s. 6d.

Hair.

CARE OF THE SKIN AND HAIR, with Suggestions as to Diet, Clothing, Bathing and Cosmetics, by J. Startin. Cr. 8vo. 88 pp. 1902. Simpkin, 2s. 6d.

HAIR AND ITS DISEASES, by D. Walsh, M.D. Cr. 8vo. 96 pp. 1902. Baillière, 2s. 6d.

PRESERVATION OF THE HAIR, by R. W. Leftwich. Cr. 8vo. 128 pp. 1901. Simpkin, 2s.

Hygiene.

AIR, FOOD AND EXERCISES, by A. Rabagliati. Demy 8vo. 580 pp. 1904. Baillière, 7s. 6d.

AIR, WATER AND FOOD FROM A Sanitary Standpoint, by E. H. Richards and A. G. Woodman (U.S.A.). 8vo. 1900. Chapman, 8s. 6d.

ARCHITECTURAL HYGIENE: SANITARY Science as Applied to Buildings, by B. F. and H. P. Fletcher. Cr. 8vo. 290 pp. 305 Illus. 1899. Whittaker, 5s.

CATECHISM OF HYGIENE AND Sanitary Science, in 15 Parts, by P. Hehir, M.D. Part I. Water. Cr. 8vo. 596 pp. 1894. Baillière, 4s.

CLIMATOLOGY AND HEALTH RESORTS, including Mineral Springs, by F. P. Weber, M.A., M.D. 2 vols. Demy 8vo. Vol. I. European and British Health Resorts. 336 pp. 15 Maps and Plates. Vol. II. Health Resorts of Africa, Australia, and America, by F. P. Weber and G. Hinsdale. Demy 8vo. 420 pp. 12 Maps and Plates. 1901. Rebman, 12s. 6d. each.

ELEMENTARY HYGIENE, by T. W. Gardner. Cr. 8vo. 1903. Simpkin, 1s. 6d.

ELEMENTARY PRACTICAL HYGIENE, by W. S. Furneaux. Section I. Cr. 8vo. 248 pp. 1901. Longmans, 2s. 6d.

ELEMENTS OF HEALTH, by L. C. Parkes, M.D., D.P.H. Cr. 8vo. 246 pp. 27 Illus. 1895. Churchill, 3s. 6d.

ELEMENTS OF HYGIENE FOR Schools, by J. Campbell, M.D. 7th ed. M. H. Gill & Son, Dublin, 2s. 6d.

ESSAYS ON RURAL HYGIENE, by G. V. Poore. Cr. 8vo. 3rd ed. 434 pp. 1903. Longmans, 6s. 6d.

EXPERIMENTAL HYGIENE, by A. T. Simmons and E. Stenhouse. Cr. 8vo. 340 pp. 1901. Macmillan, 2s. 6d.

HANDBOOK OF HYGIENE, by Lieut.-Col. A. M. Davies, D.P.H. 12mo. 2nd ed. 650 pp. Illus. 1902. Griffin, 8s. 6d.

HANDBOOK OF HYGIENE AND Sanitary Science, by G. Wilson, M.A., M.D., LL.D., D.P.H. Post 8vo. 8th ed. 825 pp. Illus. 1898. Churchill, 12s. 6d.

HANDBOOK OF PRACTICAL HYGIENE, by D. H. Bergey. 164 pp. 1900. Chemical Pub. Co., Easton, Pa., $1.50.

HANDBOOK OF SANITARY INFORMATION for Householders, by R. S. Tracy, M.D. (U.S.A.). 18mo. Spon, 2s. 6d.

HEALTHY HOME, by F. Vacher. 2nd ed. 1901. Sanitary Pub. Co., 2s. 6d.

HYGIENE AND PUBLIC HEALTH, by L. C. Parkes, M.D., D.P.H., and H. R. Kenwood, M.B., D.P.H. Cr. 8vo. 732 pp. 85 Illus. 1902. H. K. Lewis, 12s.

HYGIENE: ELEMENTARY COURSE (for South Kensington Exams.), by T. London. Post 8vo. 176 pp. Illus. 1898. Chambers, 1s. 6d.

HYGIENE: FIRST STAGE, by R. A. Lyster. Cr. 8vo. 2nd ed. 200 pp. 100 Illus. 1901. Clive, 2s.

HYGIENE FOR STUDENTS, by E. F. Willoughby, M.D. Cr. 8vo. 563 pp. 1901. Macmillan, 4s. 6d.

HYGIENE: MANUAL OF PERSONAL and Public Health, by A. Newsholme. 8vo. New ed. 364 pp. Illus. 1902. G. Gill, 4s. 6d.

IDEAL HEALTH AND HOW TO Obtain It, by A. Bryce. Cr. 8vo. 114 pp. 1902. Simpkin, 1s. paper.

MANUAL OF HYGIENE, by Mary T. Bissell, M.D. 8vo. Baker & Taylor Co., N.Y., $2.

MANUAL OF HYGIENE, by W. H. Hamer. 8vo. 1902. Churchill, 12s. 6d.

MANUAL OF HYGIENE AND SANITATION, by S. Egbert. Cr. 8vo. 1901. Hirschfeld, 10s. 6d.

MANUAL OF PERSONAL HYGIENE, ed. by W. L. Pyle, M.D. (U.S.A.). 344 pp. Saunders & Co., 6s.

Hygiene, *continued.*

MANUAL OF PRACTICAL HYGIENE, by E. A. Parkes, M.D. 8vo. 8th ed. 789 pp. 101 Illus. 10 Plates. 1891. Churchill, 18s.

MANUAL OF PRACTICAL HYGIENE, for Students, Medical Officers, etc., by C. Harrington (U.S.A.). Royal 8vo. 736 pp. 105 Illus. 1901. Kimpton, 21s.

MANUAL OF SCHOOL HYGIENE, for Teachers in Day Schools, by E. W. Hope, M.D., and E. A. Browne, F.R.C.S.E. Cr. 8vo. 220 pp. 1901. C. J. Clay, 3s. 6d.

NOTES ON CHALYBEATE SPRINGS of Spa, Belgium, by R. Wybauw. Cr. 8vo. 1903. Low, 1s. 6d. paper.

OUTLINES OF NAVAL HYGIENE, by J. D. Macdonald, M.D. Cr. 8vo. 364 pp. 40 Illus. 1881. Smith, Elder, 7s. 6d.

PERSONAL AND DOMESTIC HYGIENE, for School and Home, by Mrs. H. Hendley. Fcp. 8vo. 209 pp. 35 Illus. 1893. Thacker, 3s. 6d.

POCKET DICTIONARY OF HYGIENE, by C. T. Kinzett and D. Homfray, B.Sc. 32mo. 2nd ed. 112 pp. 1904. Baillière, 2s. 6d.

PRACTICAL HYGIENE, adapted to American conditions, by C. G. Currier, M.D. 4to. 3rd ed. 492 pp. E. B. Treat & Co., N.Y., $2.

PRINCIPLES OF HYGIENE, for Students and Health Officers, by D. H. Bergey, A.M., M.D. (U.S.A.). Royal 8vo. 495 pp. Illus. 1901. W. B. Saunders & Co., 13s.

SCHOOL HYGIENE, by E. R. Shaw (U.S.A.). Cr. 8vo. 260 pp. 13 Plates. 1901. Macmillan, 4s. 6d.

SCHOOL HYGIENE AND DISEASES Incidental to School Life, by R. Farquharson, M.D. Cr. 8vo. 368 pp. 1885. Smith, Elder, 7s. 6d.

SCHOOL HYGIENE, by A. Newsholme. Cr. 8vo. 7th ed. 320 pp. Illus. 1903. Sonnenschein, 3s.

SCIENCE OF HYGIENE, by W. C. C. Pakes. Demy 8vo. 380 pp. 181 Illus. 1900. Methuen, 15s.

TEXT-BOOK OF HYGIENE, by G. H. Rohe, M.D. Royal 8vo. 3rd ed. 450 pp. F. A. Davis Co., Philadelphia, $3.

THEORY AND PRACTICE OF HYGIENE, by Col. Notter, M.D., and Major Horrocks, M.B., B.Sc. Royal 8vo. 2nd ed. 1100 pp. 138 Illus. 15 Plates. 1900. Churchill, 25s.

TREATISE ON PUBLIC HYGIENE AND its Applications in Different European Countries, trans. from Dr. A. Palmberg. 8vo. 2nd ed. 182 Illus. Sonnenschein, 10s. 6d.

Municipal Sanitation.

COLONIAL AND CAMP SANITATION, by G. V. Poore. Cr. 8vo. 1903. Longmans, 2s. 6d.

CONSTRUCTION OF HEALTHY DWELLINGS, by Sir D. Galton. 8vo. 2nd ed. 306 pp. 65 Illus. 1896. Frowde, 10s. 6d.

DISPOSAL OF HOUSEHOLD WASTES, by W. P. Gerhard (U.S.A.). 18mo. 195 pp. Spon, 2s.

DISPOSAL OF THE SLOP-WATER OF Villages, by C. B. Fox, M.D. Fcp. 8vo. 2nd ed. 43 pp. 9 Illus. 1877. Churchill, 1s. 6d.

DWELLING-HOUSES: THEIR SANITARY Construction and Arrangement, by W. H. Corfield, M.A., M.D. Cr. 8vo. 4th ed. 124 pp. 40 Illus. 1898. Lewis, 3s. 6d.

ECONOMIC DISPOSAL OF TOWN'S Refuse, by W. F. Goodrich. Large cr. 8vo. 340 pp. 75 Illus. 1901. P. S. King, 10s. 6d.

MANUAL FOR MUNICIPAL OFFICERS in Ohio (U.S.A.), by E. Ritchie. 12mo. 4th ed. 1901. R. Clarke Co., Cincinnati, $1.25.

METROPOLITAN SANITATION, by W. H. Daw. Cr. 8vo. 260 pp. 1896. *Estates Gazette*, 5s.

MUNICIPAL AND SANITARY ENGINEER'S Handbook, by H. P. Boulnois. Demy 8vo. 3rd ed. 474 pp. Illus. 1898. Spon, 15s.

MUNICIPAL ENGINEERING AND Sanitation, by N. Baker. Cr. 8vo. 1902. Macmillan, 5s.

MUNICIPAL IMPROVEMENTS, by W. F. Goodhue (U.S.A.). 12mo. 2nd ed. Chapman, 7s. 6d.

MUNICIPAL PUBLIC WORKS: THEIR Inception, Construction and Management, by S. Whinery. Cr. 8vo. 1903. Macmillan, 6s.

MUNICIPAL SANITATION IN THE United States, by C. V. Chapin, M.D. (U.S.A.). Royal 8vo. 970 pp. 110 Illus. 1901. P. S. King, 25s.

PUBLIC ABATTOIRS AND CATTLE Markets, from the German of O. Schwartz. Royal 8vo. 472 pp. 200 Illus. 1901. Ice and Cold Storage Pub. Co., 10s. 6d.

PUBLIC INSTITUTIONS: THEIR ENGINEERING, Sanitary and other Appliances, by F. Colyer. Demy 8vo. 219 pp. 1889. Spon, 5s.

REFUSE DISPOSAL AND POWER Production, by W. F. Goodrich. Demy 8vo. 400 pp. 98 Illus. 1904. Constable, 16s.

REMOVAL AND DISPOSAL OF TOWN Refuse, by W. H. Maxwell. 8vo. 372 pp. 73 Illus. 1898. Sanitary Pub. Co., 15s.

SANITARY WORK IN SMALL TOWNS and Villages, by C. Slagg. 2nd ed. 1883. Lockwood, 3s.

STREET CLEANING AND THE DISPOSAL of a City's Wastes, by G. E. Waring, Jun. (U.S.A.). Cr. 8vo. 240 pp. 30 Illus. 1900. Gay & Bird, 5s.

(**Plumbing.** See section 54.)

Public Health.

AIDS TO SANITARY SCIENCE, for Candidates for Public Health Qualifications, by F. J. Allan, M.D., D.P.H. Small cr. 8vo. 236 pp. 1890. Baillière, 4s. 6d.

DANGEROUS TRADES: INDUSTRIAL Occupations as Affecting Public Health, ed. by Dr. T. Oliver, M.A., M.D. Demy 8vo. 1902. J. Murray, 25s.

EPIDEMICS, PLAGUES AND FEVERS: Their Cause and Prevention, by Hon. R. Russell. Demy 8vo. 508 pp. 1892. P. S. King & Son, 5s.

HANDBOOK OF PUBLIC HEALTH: Laboratory Work and Food Inspection, by O. W. Andrews, M.B., B.S., D.P.H. Demy 8vo. 292 pp. 74 Illus. 1901. Baillière, 7s. 6d.

HANDBOOK OF PUBLIC HEALTH, by J. Orr. Cr. 8vo. 248 pp. 1901. Livingstone, Edinburgh, 4s.

HANDBOOK OF PUBLIC HEALTH, by Sir J. Skelton. Cr. 8vo. New ed. Part I. The Public Health (Scotland) Act, 1897, with Notes. 3s. 6d. Part II. Circulars of the Local Government Board. Blackwood.

HEALTH OFFICER'S POCKET-BOOK, by E. F. Willoughby. 12mo. 2nd ed. 448 pp. 1902. Lockwood, 10s. 6d.

HOUSING QUESTION: AN EXAMINATION by a Surveyor of the Subject, by A. W. Crampton. 8vo. 125 pp. 1901. *Land Agent's Record*, 3s. 6d.

HYGIENE AND PUBLIC HEALTH, by L. Parkes, M.D., D.P.H., and H. R. Kenwood, M.B., D.P.H. Cr. 8vo. 732 pp. 85 Illus. 1901. Lewis, 12s. 6d.

HYGIENE AND PUBLIC HEALTH, for Students, by B. A. Whitelegge, M.D., B.Sc., D.P.H. 12mo. 588 pp. 25 Illus. 1901. Cassell, 7s. 6d.

MANUAL OF PUBLIC HEALTH, by A. W. Blyth. 8vo. 650 pp. 54 Illus. 9 Plates. 1890. Macmillan, 17s.

MEDICAL INSPECTION OF SCHOOL Children, by W. L. Mackenzie and E. Matthew. Demy 8vo. 470 pp. 1904. Hodge & Co., Glasgow, 10s. 6d.

METHODS OF PRACTICAL HYGIENE, trans. from K. B. Lehmann. 2 vols. Large cr. 8vo. 1893. Vol. I. Air, Soil, Water. 432 pp. 88 Illus. Vol. II. Meat, Milk, Butter, Bread, Vegetables, Sugar, Beer, Clothing, etc. 468 pp. Illus. Paul, 31s. 6d.

PRACTICAL GUIDE TO MEAT INSPECTION, by T. Walley. Post 8vo. 4th ed. 198 pp. Coloured Illus. Young J. Pentland, 10s. 6d.

PRINCIPLES OF SANITARY SCIENCE and the Public Health, by W. T. Sedgwick. 8vo. 1902. Macmillan, 12s. 6d.

PUBLIC HEALTH AND HOUSING: Milroy Lectures, by Dr. J. F. J. Sykes, M.D. Cr. 8vo. 216 pp. 1901. P. S. King, 5s.

PUBLIC HEALTH AND PREVENTIVE Medicine, by C. J. Lewis and A. Balfour. Royal 8vo. 1902. Churchill, 25s.

PUBLIC HEALTH LABORATORY Work, by H. R. Kenwood, M.B., D.P.H. Cr. 8vo. 2nd ed. 453 pp. 109 Illus. 1896. Lewis, 10s. 6d.

Public Health, *continued.*

PUBLIC HEALTH REPORTS, by Sir J. Simon, ed. by Ed. Seaton, M.D. 2 vols. 8vo. 1172 pp. 1887. Churchill, 36s.

RISKS AND DANGERS TO HEALTH of Various Occupations and Their Prevention, by L. A. Parry, M.D., B.S. Demy 8vo. 196 pp. 1900. Scott, Greenwood, 7s. 6d.

TREATISE ON HYGIENE AND PUBLIC Health, ed. by T. Stevenson, M.D., F.R.C.P., and S. F. Shirley. 3 vols. Royal 8vo. Vol. I. Air, Warming, Meteorology, Climate, Water, Food, Clothing, Physical Education, Baths, Hospital Hygiene, Disposal of Refuse, Offensive Businesses, Slaughter-houses. 1013 pp. 9 Plates and 186 Illus. 1892. 28s. Vol. II. Infectious Diseases, Vaccination, Marine Hygiene, Military Hygiene, Disposal of the Dead, Vital Statistics, Duties of the Medical Officer. 847 pp. 45 Plates and 54 Illus. 1893. 32s. Vol. III. Law Relating to Public Health in England, Wales, Scotland and Ireland. 460 pp. 1894. 20s.

(See also **Municipal Sanitation,** above.)

Public Health Law.

DIGEST OF PUBLIC HEALTH CASE Law, by J. E. R. Stephens. Demy 8vo. 664 pp. 1902. Sanitary Pub. Co., 21s.

GUIDE TO PUBLIC HEALTH ACTS, 1875-1890, by L. Gaches. 1902. Eyre & Spottiswoode, 3s. 6d.

PRACTICAL GUIDE TO THE PUBLIC Health Acts, by T. W. Hime, B.A., M.D. Large cr. 8vo. 2nd ed. 1096. pp. Illus. 1901. Baillière, 15s.

PUBLIC HEALTH (LONDON) ACT, 1891, by A. Macmorran. 12mo. 1891. Shaw & Sons, 18s.

PUBLIC HEALTH ACTS, by F. Stratton. 8vo. 1894. Clowes, 7s. 6d.

PUBLIC HEALTH (Lumley's), by A. Macmorran and S. G. Lushington, M.A. 2 vols. 6th ed. 1902. Butterworth, 72s. 6d.

PRACTICAL GUIDE FOR SANITARY Inspectors (Legal), by H. Kenwood. Cr. 8vo. 1900. Clowes, 5s.

SANITARY INSPECTOR'S GUIDE, by H. Lemmoin-Cannon. Cr. 8vo. 256 pp. 1902. P. S. King, 3s. 6d.

Sanitary Inspection.

BAD DRAINS AND HOW TO TEST Them, and Notes on Ventilation of Sewers, etc., by R. H. Reeves. Cr. 8vo. 68 pp. 3 Plates. 1885. Spon, 3s. 6d.

GUIDE TO SANITARY HOUSE INSPECTION: Hints on Choosing a Healthy House, by W. P. Gerhard (U.S.A.). Sq. 12mo. 3rd ed. Chapman, 4s. 6d.

MODEL ANSWERS TO QUESTIONS SET by Sanitary Institute. Cr. 8vo. 1904. 159 pp. 4th series. Sanitary Pub. Co., 2s. 6d.

MODERN DRAINAGE INSPECTION and Sanitary Surveys, by G. J. G. Jensen. Cr. 8vo. 132 pp. 111 Illus. 1899. Sanitary Pub. Co., 2s. 6d.

PRACTICAL GUIDE FOR SANITARY Inspectors, by F. C. Stockman. Post 8vo. 290 pp. 1900. Butterworth, 5s.

PRACTICAL SANITATION, for Sanitary Inspectors, etc., by G. Reid. Cr. 8vo. 9th ed. 358 pp. 106 Illus. 1902. Griffin, 6s.

SANITARY INSPECTOR'S HANDBOOK, by A. Taylor. Cr. 8vo. 3rd ed. 402 pp. 67 Illus. 1901. Lewis, 6s.

STUDENT'S GUIDE TO SUCCESS IN Sanitary Inspectors' Examinations, by M. Chapman. 73 pp. Illus. 1901. Sanitary Pub. Co., 1s. 6d.

(**Plumbing.** See section 54.)

Sewage and Sewerage.

ANALYSIS OF SEWAGE AND SEWAGE Effluents, by G. Thudichum. 1902. Sanitary Pub. Co., 5s.

BACTERIAL PURIFICATION OF SEWAGE, by S. Barwise, M.D., D.P.H. Royal 8vo. 48 pp. 10 Plates. 2 Diagrams. 1901. Lockwood, 6s.

CLEANING AND SEWERAGE OF Cities, by R. Baumeister. Med. 8vo. 2nd ed. 290 pp. Illus. Van Nostrand, N.Y., $2.

DISCUSSION ON THE PREVAILING Theories and Practices relating to Sewage Disposal, by W. Kiersted (U.S.A.). Cr. 8vo. 182 pp. 1894. Chapman, 5s. 6d.

MODERN METHODS OF SEWAGE Disposal for Towns, Public Institutions and Isolated Houses, by G. E. Waring, Jun. Cr. 8vo. 2nd ed. 252 pp. 22 Illus. Van Nostrand, N.Y., $2.

MODERN TREATMENT OF SEWAGE, by H. C. H. Shenton. Cr. 8vo. 1902. Whittaker, 2s. 6d. limp.

NATURAL AND ARTIFICIAL SEWAGE Treatment, by A. S. Jones and H. A. Roechling. 8vo. 104 pp. 1902. Spon, 3s. 6d.

PURIFICATION OF SEWAGE, by S. Barwise, M.D., D.P.H. Cr. 8vo. 2nd ed. 230 pp. Illus. 1904. Lockwood, 10s. 6d.

PURIFICATION OF SEWAGE AND Water, by W. J. Dibdin. Royal 8vo. 3rd ed. 357 pp. 1903. Sanitary Pub. Co., 21s.

PURIFICATION OF WATER-CARRIED Sewage, by J. C. Melliss and H. Robinson. Demy 8vo. 214 pp. 1877. Smith, Elder, 6s.

SEPARATE SYSTEM OF SEWERAGE, by C. Staley and G. S. Pierson. 8vo. 3rd ed. Illus. Van Nostrand, N.Y., $3.

SEPTIC SYSTEM OF THE OCEAN AND the Septic Tank System at Exeter, by "Circumnavigator". 16 pp. 1901. Hodgetts, 1s.

SEWAGE ANALYSIS, by J. A. Wanklyn and W. J. Cooper. Cr. 8vo. 220 pp. 1899. Kegan Paul, 7s. 6d.

SEWAGE AND THE BACTERIAL PURIFICATION of Sewage, by S. Rideal. Royal 8vo. 2nd ed. 322 pp. 1903. Sanitary Pub. Co., 14s.

SEWAGE DISPOSAL IN THE UNITED States, by G. W. Rafter and M. N. Baker. Royal 8vo. 598 pp. 116 Illus. 7 Plates. 1898. Van Nostrand, N.Y., $6.

SEWAGE DISPOSAL WORKS: PREVENTION of the Pollution by Sewage of Rivers and Estuaries, by W. S. Crimp. Med. 8vo. 2nd ed. 350 pp. Illus. 37 Plates. 1894. Griffin, 30s.

SEWAGE PURIFICATION, with Examples from Northampton, Dewsbury, etc., by E. Bailey-Denton. 8vo. 8 Plates. Spon, 5s.

SEWAGE QUESTION: CONDITION OF Principal Sewage Farms and Sewage Works, by H. Letheby, M.D. Cr. 8vo. 204 pp. 1872. Baillière, 4s. 6d.

SEWAGE TREATMENT, PURIFICATION and Utilisation, by J. W. Slater. Cr. 8vo. 270 pp. Illus. Whittaker, 6s.

SEWAGE WORKS ANALYSIS, by G. J. Fowler. Cr. 8vo. 144 pp. 1902. P. S. King, 6s.

SEWERAGE: DESIGNING, CONSTRUCTION and Maintenance of Sewerage Systems, by A. P. Folwell (U.S.A.). 8vo. 36 Illus. 1899. Chapman, 12s. 6d.

SEWERAGE AND LAND DRAINAGE, by Geo. E. Waring, Jun. 4to. 4th ed. Illus. Van Nostrand, N.Y., $6.

SEWERAGE AND SEWAGE DISPOSAL, by H. Robinson. Large cr. 8vo. 192 pp. Plates. 1896. Spon, 5s.

SEWERAGE AND SEWAGE PURIFICATION, by M. N. Baker (U.S.A.). 18mo. 144 pp. Spon, 2s.

SEWER CONSTRUCTION, by W. H. Maxwell. Demy 8vo. 42 pp. 27 Illus. 1898. Hodgetts, Ltd., 1s.

SEWER DESIGN, by H. N. Ogden (U.S.A.). Cr. 8vo. 234 pp. 50 Illus. 5 Plates. 1898. Chapman, 8s. 6d.

SEWER GAS AND ITS INFLUENCE Upon Health, by H. A. Rochling. Demy 8vo. Illus. Biggs, 5s.

SEWER GASES: THEIR NATURE and Origin, and How to Protect Dwellings, by A. D. Varona, M.D. (U.S.A.). 18mo. 2nd ed. 145 pp. Spon, 2s.

SEWERS AND DRAINS FOR POPULOUS Districts, by J. W. Adams. Demy 8vo. 228 pp. 67 Illus. 1880. Van Nostrand, N.Y., $2.50.

TREATMENT AND UTILIZATION OF Sewage, by W. H. Corfield. Demy 8vo. 3rd ed. 510 pp. 1887. Macmillan, 16s.

(Ventilation. See section 54.)

SECTION 35.

INDIA-RUBBER.

ALL ABOUT RUBBER AND GUTTA-PERCHA, by J. Ferguson. 8vo. 3rd ed. 350 pp. Luzac, 5s. boards.

CHEMISTRY OF INDIA-RUBBER, by C. O. Weber, Ph.D. Demy 8vo. 314 pp. Illus. 1903. Griffin, 16s.

CULTURE OF AMERICAN RUBBER Tree, by O. F. Cook U.S.A. . 8vo. 18 Plates. 1904. W. Wesley. 5s.

GUTTA-PERCHA : LECTURES, by Dr. E. F. A. Obach. 1898. Society of Arts, 2s. 6d.

INDIA-RUBBER AND GUTTA-PERCHA, trans. from French of T. Seeligmann, G. L. Torrilhon and H. Falconnet. Royal 8vo. 412 pp. 86 Illus. 3 Plates. 1903. Scott, Greenwood, 12s. 6d.

INDIA-RUBBER, GUTTA-PERCHA AND Balata, by W. T. Brannt. Cr. 8vo. 352 pp. 24 Illus. 1900. Sampson Low, 12s. 6d.

RUBBER HAND STAMPS AND THE Manufacture of India-rubber, by Sloane. 2nd ed. 146 pp. N. W. Henley & Co., N.Y., $1.

SOURCES OF COMMERCIAL INDIA-RUBBER : Two Lectures, by Dr. D. Morris. 1898. Society of Arts, 2s.

(**Inks.** See section 30.)

SECTION 36.

INSURANCE.

General.

BOURNE'S INSURANCE DIRECTORY. Annual. Ed. by F. H. Kitchin. 8vo. 1903. E. Wilson, 5s.

INSURANCE CYCLOPÆDIA, by C. Walford. Vols. I. to V. Each 640 pp. Layton, 21s. each.

INSURANCE : MANUAL OF PRACTICAL Law, by C. F. Morrell. Cr. 8vo. 284 pp. 1892. A. & C. Black, 5s.

INSURANCE OFFICE ORGANISATION, Management and Accounts, by T. E. Young and R. Masters. Demy 8vo. 140 pp. 1904. Pitman, 3s. 6d.

INSURANCE : PRACTICAL EXPOSITION for Student and Business Men, by T. E. Young. Demy 8vo. 340 pp. 1903. Pitman, 7s. 6d.

LAW RELATING TO INSURANCE Agents : Fire, Life, Accident and Marine, by J. E. R. Stephens. 12mo. 2nd ed. 68 pp. 1901. E. Wilson, 1s.

PRACTICAL LESSONS IN ACTUARIAL Science : Elementary Text-book, by M. M. Dawson (U.S.A.). Super royal 4to. 500 pp. Spectator Co., N.Y., $6.

Annuity Tables.

ASSURANCE AND ANNUITY TABLES, by Gray, Smith and Orchard. Demy 8vo. Layton, 10s. 6d.

JOINT-LIFE ANNUITY TABLES FOR Lives of Both Sexes, Based on 1883 Report of A. J. Finlaison. Med. 8vo. 115 pp. Institute of Actuaries, 10s. 6d.

TABLES FOR FINDING INTERMEDIATE Rates of Interest in an Annuity, Certain, by W. H. Oakes. Demy 8vo. Layton, 10s. 6d.

Fire Insurance.

AVERAGE CLAUSE : HINTS ON Settlement of Claims for Losses by Fire under Mercantile Policies, by R. Atkins. Cr. 8vo. 108 pp. Layton, 5s.

FIRE AND EXPLOSION RISKS, by Dr. von Schwartz, trans. from German. Demy 8vo. 357 pp. 1904. Griffin, 16s.

FIRES AND PUBLIC ENTERTAINMENTS : Study of some 1,100 Notable Fires at Theatres, etc., by E. O. Sachs. Layton, 12s. 6d.

FIRE INSURANCE MANUAL : Various Kinds of Fire Risks Arranged Alphabetically, by F. A. C. Hare. Cr. 8vo. 260 pp. Layton, 15s.

FIRE UNDERWRITER'S COMPANION, by D. A. Campbell. Demy 8vo. 18 pp. Layton, 10s. 6d.

HANDBOOK FOR FIRE INSURANCE Agents, by S. R. Weed. Spectator Co., N.Y., $1.50.

LAW OF FIRE INSURANCE, by C. J. Bunyon. Demy 8vo. 4th ed. 448 pp. 1893. Clowes, 21s.

LAW OF FIRE ASSURANCE, INCLUDING Formation of Assurance

Companies, by C. J. Bunyon; revised by J. V. Fitzgerald. Demy 8vo. 3rd ed. Layton, 31s. 6d.

PRINCIPLES AND FINANCE OF FIRE Insurance, by F. H. Kitchin. Cr. 8vo. 266 pp. 1904. E. Wilson, 6s.

SPECIAL AGENT'S AND ADJUSTER'S Companion, by W. P. Lucas. Spectator Co., N.Y., $1.50.

Life Assurance.

A B C OF LIFE INSURANCE, by C. E. Willard. 4th ed. Spectator Co., N.Y., $1.

ART OF CANVASSING FOR INSURANCE, by W. Miller. Spectator Co., N.Y., $1.50.

ASSIGNMENTS OF POLICIES OF LIFE Assurance, by C. E. Howell, B.A., LL.D. Med. 8vo. 25 pp. 1897. Layton, 2s.

ELEMENTS OF LIFE INSURANCE, by M. M. Dawson. Spectator Co., N.Y., $2.

HOW TO EXAMINE FOR LIFE INSURANCE, by J. M. Keating, M.D. (U.S.A.). Royal 8vo. 3rd ed. 211 pp. Saunders & Co., 8s.

INSURANCE GUIDE AND HANDBOOK, by C. Walford, revised by A. W. Tarn. Demy 8vo. 4th ed. 280 pp. Layton, 7s. 6d.

LAW OF LIFE ASSURANCE, by C. J. Bunyon. Demy 8vo. 3rd ed. 1891. Clowes, 31s. 6d.

LAW OF LIFE INSURANCE, with a Chapter on Accident Insurance, by C. Crawley, M.A. Demy 8vo. 1882. Clowes, 12s. 6d.

LIFE ASSURANCE EXPLAINED, by W. Schooling. Cr. 8vo. 241 pp. 1897. Cassell, 1s. boards.

LIFE INSURANCE EXAMINER, by C. F. Stillman, M.S., M.D. Spectator Co., N.Y., $3.

MEDICAL EXAMINATION FOR LIFE Assurance, by F. de H. Hall, M.D. Cr. 8vo. J. Wright & Co., Bristol, 2s. 6d.

MEDICAL EXAMINATIONS FOR LIFE Insurance, by J. A. Allen, M.D., LL.D. Spectator Co., N.Y., $2.

NOTES ON LIFE INSURANCE, by G. W. Smith. Spectator Co., N.Y., $2.

PLAIN ADVICE ABOUT LIFE INSURANCE, by A. J. Wilson. Cr. 8vo. 2nd ed. 110 pp. 1898. Clement Wilson, 1s. 6d.

POCKET COMPANION FOR LIFE Assurance Agents, by P. Sayle. Fcp. 8vo. 2nd ed. 75 pp. Layton, 1s.

PRACTICAL INFORMATION FOR LIFE Assurance Agents, by W. Hughes. Fcp. 8vo. 80 pp. Layton, 1s.

SYSTEM AND TABLES OF LIFE INSURANCE, based on Records of American Life Offices (U.S.A.). Royal 8vo. 551 pp. 1899. Layton, 42s.

TREATISE ON LIFE INSURANCE ACCOUNTS, by T. B. Sprague, M.A., LL.D. Demy 8vo. 158 pp. Layton, 5s.

Marine Insurance.

DIGEST OF LAW RELATING TO Marine Insurance, by M. D. Chalmers. 8vo. 2nd ed. 1903. Clowes, 10s. 6d.

EPITOME OF LAW AFFECTING Marine Insurance, by L. Duckworth. Cr. 8vo. 173 pp. 1901. E. Wilson, 3s. 6d.

LAW RELATING TO GENERAL AND Particular Average for Underwriters, by L. Duckworth. Cr. 8vo. 124 pp. 1900. E. Wilson, 2s. 6d.

MANUAL OF MARINE INSURANCE, by M. Hopkins. Demy 8vo. 544 pp. 1867. Smith, Elder, 18s.

MARINE INSURANCE, by W. Gow. Cr. 8vo. 3rd ed. 444 pp. 1903. Macmillan, 5s.

STAMP DUTIES ON SEA INSURANCES, Analysis, by A. K. Allen. Cr. 8vo. Layton, 6s.

TABLES OF MARINE INSURANCE Premiums, by C. H. Pearson. Demy 8vo. Palmer, Howe, Manchester, 10s.

UNDERWRITERS' ACCOUNTS, by E. E. Spicer and E. E. Pegler. Cr. 8vo. 70 pp. 1903. Gee, 3s. 6d.

Valuation Tables.

TABLES FOR FINDING VALUES OF Policies of all Durations, by J. Chisholm. Sup. royal 8vo. 208 pp. Layton, 31s. 6d.

TABLES OF THE VALUE OF A POLICY of Insurance for £1, by W. E. Hillman. Demy 8vo. Layton, 21s.

Valuation Tables, *continued.*

VALUATION AND OTHER TABLES, on Annuities and Assurances, by W. A. Bowser. Royal 8vo. Layton, 10s. 6d.

VALUATION AND OTHER TABLES, Values of Policies, Temporary Annuities, Single and Annual Premiums, etc., by E. Colquhoun. Layton, 21s.

SECTION 37.

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EDE'S GOLD AND SILVERSMITH'S and Jeweller's Calculator, by J. Aspin. Demy 8vo. 1888. J. Blackwood & Co., 7s. 6d.

ENGRAVING METALS, ed. by P. N. Hasluck. Fcp. 8vo. 160 pp. 117 Illus. 1901. Cassell, 1s.

GOLDSMITH'S HANDBOOK, by G. E. Gee. 12mo. 5th ed. 230 pp. Lockwood, 3s.

HALL-MARKING OF JEWELLERY, by G. E. Gee. Cr. 8vo. 1884. Lockwood, 3s.

HALL MARKS ON GOLD AND SILVER Plate, by W. Chaffers. Royal 8vo. 8th ed. 346 pp. Reeves & Turner, 16s.

HANDBOOK OF PRECIOUS STONES, by M. D. Rothschild (U.S.A.). 16mo. 143 pp. 10 Illus. 1901. Putnam, 4s.

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JEWELLER'S, SILVERSMITH'S AND Kindred Trades' Accounts, by A. Edwards. 8vo. 1903. Gee, 5s.

PRECIOUS STONES: POPULAR ACCOUNT of their Characters, Occurrence and Applications, trans. from German of M. Bauer. Imp 8vo. 644 pp. 94 Illus. 20 Plates. 1903. Griffin, 42s.

PRECIOUS STONES AND GEMS: Their History, Sources and Characteristics, by E. W. Streeter. Demy 8vo. 6th ed. 339 pp. Coloured Plates and Illus. 1898. Bell, 15s.

SILVERSMITH'S HANDBOOK, by G. E. Gee. 12mo. 3rd ed. 225 pp. Illus. Lockwood, 3s.

SILVERWORK AND JEWELLERY, by H. Wilson. Cr. 8vo. 348 pp. 182 Illus. 16 Plates. 1903. J. Hogg, 5s.

SIMPLE RULES FOR THE DISCRIMINATION of Gems, by T. S. G. Kirkpatrick, M.A. Spon, 2s.

SECTION 38.

LAND, PROPERTY.

Estates, Land.

COUNTRY GENTLEMEN'S ESTATE Book. Annual. Country Gentleman's Association, 3s. 6d.

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ESTATE MANAGEMENT, for Landlords and Agents, by C. E. Curtis. Demy 8vo. 5th ed. 464 pp. 1901. H. Cox, 10s. 6d.

DEVOLUTION OF REAL ESTATE AND Administration of Assets, by L. G. G. Robbins and F. T. Maw. Demy 8vo. 3rd ed. 492 pp. 1901. Butterworth, 15s.

HEDGES, WINDBREAKS, SHELTERS and Line Fences, by E. P. Powell (U.S.A.). Cr. 8vo. 140 pp. Illus. 1900. Gay & Bird, 2s. 6d.

LAND AGENCY, ed. by H. W. Raffety. Cr. 8vo. 520 pp. 1899. *Estates Gazette*, 7s. 6d.

LAND PURCHASE ACTS (IRELAND), 1870-1891, by G. Fottrell. Cr. 8vo. 3rd ed. M. H. Gill & Son, Dublin, 18s.

LAW OF ALLOTMENTS, by J. B. Little, B.A. Post 8vo. 2nd ed. 477 pp. 1895. Butterworth, 10s. 6d.

LAW OF BOUNDARIES AND FENCES, by A. Brown. Demy 8vo. 4th ed. 416 pp. 1896. Butterworth, 14s.

THE LAW RELATING TO LANDED Estates, by S. Wright. Demy 8vo. 467 pp. 1896. *Estates Gazette*, 12s. 6d.

Landlord and Tenant.

HANDBOOK OF LAW AND PRACTICE in Sales from Landlord to Tenant in Ireland, by G. Fottrell. Cr. 8vo. M. H. Gill & Son, Dublin, 5s.

LANDLORD AND TENANT: LAWS Connected With, by S. Wright. Cr. 8vo. 682 pp. 1900. *Estates Gazette*, 10s. 6d.

LANDLORDS, TENANTS AND LODGERS, from a Legal Standpoint. Cr. 8vo. 8th ed. Warne, 1s.

LAW OF LANDLORD AND TENANT, by W. A. Holdsworth. Fcp. 8vo. 45th ed. 237 pp. 1900. Routledge, 1s.

LAW OF LANDLORD AND TENANT, including Practice of Ejectment, by J. H. Redman. Demy 8vo. 5th ed. 811 pp. 1901. Stevens & Sons, 25s.

PRÉCIS OF ENGLISH LAW AFFECTING Landlord and Tenant, by L. Duckworth. 12mo. 1904. E. Wilson, 2s

RELATIONSHIP OF LANDLORD AND Tenant, by E. Foa. Royal 8vo. 3rd ed. 881 pp. 1901. Waterlow, 25s.

Law of Fixtures.

LAW AND PRACTICE OF FIXTURES, by S. Wright. Cr. 8vo. 3rd ed. 188 pp. 1903. *Estates Gazette*, 5s.

LAW OF FIXTURES AND REPAIRS as Between Landlord and Tenant, by W. de B. Herbert, M.A., LL.M. Fcp. 8vo. 142 pp. 1898. Clement Wilson, 2s. 6d.

Law of Property.

COMPENSATION LAW, by H. C. Richards. Cr. 8vo. 618 pp. *Estates Gazette*, 10s. 6d.

COPYHOLD ENFRANCHISEMENT with Reference to the Copyhold Act, 1894, by A. Draycott. 12mo. E. Wilson, 1s.

DILAPIDATIONS, by B. Fletcher. Cr. 8vo. 5th ed. 221 pp. 1899. Batsford, 6s. 6d.

DILAPIDATIONS, LAW AND PRACTICE, by A. T. Macer. Cr. 8vo. 3rd ed. 168 pp. 1901. *Estates Gazette*, 5s.

LAW AND PRACTICE OF COMPENSATION, by G. M. Freeman. Demy 8vo. 405 pp. 1897. *Land Agent's Record*, 20s.

LAW AS TO COPYHOLD ENFRANCHISEMENT under Copyhold Act, 1894, by A. R. Rudall and J. W. Greig, LL.B., B.A. Cr. 8vo. 318 pp. 1895. Jordan, 10s.

LAW OF DILAPIDATIONS, with Conveyancing and Property Act, 1881, and Agricultural Holdings Act, 1883. Cr. 8vo. 5th ed. 240 pp. 1899. Batsford, 6s. 6d.

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LAW OF THEATRES AND MUSIC Halls, including Contracts and Precedents of Contracts, by W. N. M. Geary. Demy 8vo. 230 pp. 1885. Stevens & Sons, 5s.

LEASES, PRINCIPLES AND POINTS, by G. St. L. Daniels. Cr. 8vo. 195 pp. 1895. *Estates Gazette*, 5s.

LIGHT AND AIR, with Methods of Estimating Injuries to Buildings from a Legal Standpoint, by B. Fletcher. Cr. 8vo. 4th ed. 166 pp. 26 Plates. 1902. Batsford, 6s. 6d.

OUTLINE OF THE LAW OF PROPERTY, by T. Raleigh. 8vo. 147 pp. 1890. Frowde, 7s. 6d.

OBSTRUCTION TO LIGHT, Problems connected with Ancient Lights, by H. B. Molesworth. 4to. 1903. Spon, 6s.

PRINCIPLES OF THE LAW OF REAL Property, by J. Williams. Demy 8vo. 19th ed. 800 pp. 1901. Sweet & Maxwell, 21s.

Property.

INVESTMENTS IN HOUSES AND Lands, by R. D. Urlin. 12mo. 4th ed. 78 pp. 1902. E. Wilson, 1s. limp.

HANDBOOK OF HOUSE PROPERTY, Purchase, Tenancy and Compulsory Sale of Houses and Land, by E. L. Tarbuck. 12mo. 6th ed. 300 pp. 1898. Lockwood, 5s.

Property, *continued.*

House-owner's Estimator, for Building and Repairing, by J. D. Simon, ed. by F. T. W. Miller. Cr. 8vo. 5th ed. 144 pp. 1900. Lockwood, 3s. 6d.

House-owners, Householders and Lodgers: Their Rights and Liabilities, by J. A. de Morgan, B.A. 12mo. 108 pp. 1895. E. Wilson, 2s. limp.

Law of Ejectment, by G. St. L. Daniels. Cr. 8vo. *Estates Gazette*, 2s. 6d.

Valuation.

Hints to Young Valuers, Valuation of Property, by A. R. Cragg; Legal Principles, by J. R. V. Marchant, M.A. 8vo. 2nd ed. 636 pp. 1901. *Land Agent's Record*, 20s.

Inwood's Tables for Purchasing Estates and for Valuation of Properties, revised by W. Schooling. Demy 8vo. 27th ed. 360 pp. 1903. Lockwood, 8s.

Land Valuer's Complete Pocket-book, by R. Hudson and J. Ewart. Royal 32mo. Lockwood, 7s. 6d.

Popular Tables on Value of Lifehold, Leasehold and Church Property, the Public Funds, etc., by C. M. Willich. Cr. 8vo. 198 pp. 1898. Longmans, 10s. 6d.

Practical Rules for Valuers, by W. D. Biden. Fcp. 8vo. 3rd ed. Layton, 1s. 6d.

Valuation of Land and Houses, by C. E. Curtis. Cr. 8vo. 2nd ed. 248 pp. 1900. *Estates Gazette*, 5s.

Valuation of Property, by W. Munro. Demy 8vo. 2nd ed. 50 pp. 1890. Blackwood & Sons, 3s. 6d.

Valuation of Tenant Right, by C. E. Curtis. 1902. H. Cox, 3s. 6d.

Valuations and Compensations, by B. Fletcher. Cr. 8vo. 2nd ed. 234 pp. 1901. Batsford, 6s. 6d.

Section 39.

LEATHER.

Boot and Shoe-making.

'an Methods of Boot Manufacture, by E. Swayslandreport. Large cr. 8vo. 35 pp. *Boot and Shoe Trades Journal*, 6d.

Boot-making and Mending, ed. by P. N. Hasluck. Post 8vo. 160 pp. 179 Illus. 1900. Cassell, 1s.

Last-fitting and Pattern-cutting, by A. Hannibal. Large cr. 8vo. 4th ed. 99 pp. 8 Illus. 1900. *Boot and Shoe Trades Journal*. 3s.

Leather Work: Stamped, Moulded, Cut, Sewn, etc., for Learners, by C. G. Leland, M.A. 4to. 2nd ed. 100 pp. Illus. 1901. Whittaker, 5s.

Manual of Boot and Shoe Manufacture, for Students, by H. Hill and H. Yeoman. Large cr. 8vo. 3rd ed. 197 pp. Illus. 1900. *Boot and Shoe Trades Journal*, 4s.

Manufacture of Boots and Shoes, by F. Y. Golding. Demy 8vo. 304 pp. 200 Illus. 1902. Chapman & Hall, 7s. 6d.

Method of Book-keeping for Boot and Shoe Retailers: Cash Book and Stock Book. 4to. *Boot and Shoe Trades Journal*, 10s. 6d.

Pattern-cutting, by H. M. Morris. Large cr. 8vo. 179 pp. 130 Illus. *Boot and Shoe Trades Journal*, 1s. 6d. paper.

Pattern-cutting Made Easy, by T. J. Brophy, Jun. Large cr. 8vo. 6th ed. 150 pp. 45 Illus. 1898. *Boot and Shoe Trades Journal*, 4s.

Standard Pattern-cutting: Method of Constructing, Drafting and Grading Standard Patterns, by C. J. Ward. Large 4to. 8 Plates and Text. *Boot and Shoe Trades Journal*, 3s. 6d.

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Harness-maker's Guide, Containing Lengths for Cutting and Making Harness, Straps, etc. Kirby, Walsall, 1s.

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Art of Leather Manufacture, by A. Watt. Cr. 8vo. 4th ed. 436 pp. 76 Illus. Lockwood, 9s.

Kelly's Directory of the Leather Trades for British Isles. 8th ed. 1899. 25s.

LEATHER INDUSTRIES: LABORATORY Book on Analytical and Experimental Methods, by H. R. Proctor. Med. 8vo. 284 pp. 29 Illus. 1898. Spon, 9s.

MANUFACTURE OF LEATHER, by C. T. Davis. Demy 8vo. 2nd ed. 712 pp. 147 Illus. 14 Samples of Leathers. 1897. Baird, Phila., $7.50.

PRACTICAL TANNING: MODERN Processes, Recipes, etc., by L. A. Fleming. Royal 8vo. 472 pp. 1903. Lockwood, 25s.

PRACTICAL TREATISE ON LEATHER Manufacturing, by B. Hooper. Cr. 8vo. 94 pp. *Boot and Shoe Trades Journal*, 2s. 6d.

PRACTICAL TREATISE ON THE Leather Industry, from French of A. M. Villon, by F. T. Addyman, B.Sc. Super royal 8vo. 500 pp. 123 Illus. 1901. Scott, Greenwood, 21s.

PRINCIPLES OF LEATHER MANUFACTURE, by H. R. Proctor. Royal 8vo. 528 pp. 1903. Spon, 18s.

Leather Recipes.

LEATHER WORKER'S MANUAL: Recipes and Working Formulæ, for Curriers, Bootmakers, Leather Dressers, Saddlers, etc., by H. C. Standage. Demy 8vo. 2nd ed. 165 pp. 1902. Scott, Greenwood, 7s. 6d.

SECTION 40.

LEGAL.

General.

BAILMENTS AND CARRIERS: DEPOSITS, Mandates, Pledges, Hire and Innkeepers, by E. Beal, B.A. Royal 8vo. 835 pp. 1900. Butterworth, 27s. 6d.

BILLS OF SALE ACTS, 1878-1882, by T. W. Haycraft, B.A. 12mo. 132 pp. 1890. E. Wilson, 2s. 6d.

CLERGYMAN'S LEGAL HANDBOOK and Churchwarden's Guide, by J. M. Dale. Cr. 8vo. 7th ed. 507 pp. 1898. Seeley, 7s. 6d.

EVERY MAN'S OWN LAWYER: Principles of Law and Equity, by a Barrister. Cr. 8vo. 39th ed. 750 pp. 1901. Lockwood, 6s. 8d.

GUIDE TO THE HIRE AND EASY-PAYMENT Systems, ed. by S. J. Sewell. Cr. 8vo. 167 pp. 1902. Sewell & Co., 3s. 6d.

HANDBOOK FOR EMPLOYER AND Employed, by A. Rumsey. Cr. 8vo. 330 pp. 1892. Sonnenschein, 4s. 6d.

HIRE-PURCHASE SYSTEM, by W. H. Russell. 12mo. 3rd ed. 102 pp. 1902. Waterlow, 3s.

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LAW RELATING TO PERSONAL Injuries, by F. G. Neave. 12mo. 83 pp. 1902. E. Wilson, 1s. 6d.

LAW RELATING TO POWERS OF Attorney and Proxies, by V. St. C. Mackenzie. Cr. 8vo. 208 pp. 1903. E. Wilson, 3s. 6d.

LAWYERS AND THEIR CLIENTS: Guide for Latter. Cr. 8vo. 110 pp. 1901. E. Wilson, 2s. limp.

OUTLINE OF THE LAW OF LIBEL: Six Lectures by W. B. Odgers. Gl. 8vo. 230 pp. 1897. Macmillan, 3s. 6d.

Arbitration.

ARBITRATOR'S MANUAL; Under the London Chamber of Arbitration, by J. S. Salaman. Fcp. 8vo. Heinemann, 3s. 6d.

DIGEST OF LAW AND ARBITRATION Cases. Demy 8vo. 1903. *Estates Gazette*, 12s. 6d.

DUTIES OF AN ARBITRATOR UNDER Workmen's Compensation Act, by A. Mozley-Stark. Royal 12mo. 144 pp. 1898. Stevens & Sons, 5s.

LAW OF ARBITRATION, being Arbitration Act, 1889, by W. O. Crewe. Post 8vo. 2nd ed. 1898. Clowes, 8s. 6d.

LAW OF ARBITRATION AND Awards, by J. Slater. Cr. 8vo. 3rd ed. 1898. Stevens & Haynes, 6s. 6d.

Arbitration, *continued.*

LAW OF ARBITRATIONS, by B. Fletcher. Post 8vo. 2nd ed. 1893. Batsford, 6s. 6d.

LAW OF ARBITRATIONS AND Awards, by J. H. Redman. Demy 8vo. 4th ed. 438 pp. 1904. Butterworth, 18s.

LONDON CHAMBER OF ARBITRATION: Law and Practice, by M. Shearman and T. W. Haycraft. 2nd ed. E. Wilson, 2s. 6d.

REDRESS BY ARBITRATION: DIGEST of Law Relating to Arbitration and Award, by H. F. Lynch. 3rd ed. 95 pp. 1898. E. Wilson, 5s.

Bankruptcy Law.

BANKRUPTCY: Manual of Practical Law, by C. F. Morrell. Cr. 8vo. 324 pp. 1891. A. & C. Black, 5s.

BANKRUPTCY, by T. M. Stevens, D.C.L. Demy 8vo. 2nd ed. 269 pp. 1899. Gee, 7s. 6d.

BANKRUPTCY ACTS, 1883 to 1893, with Rules, Forms, etc., by Judge Chalmers and E. Hough. Demy 8vo. 5th ed. 904 pp. 1902. Waterlow, 25s.

LAW AFFECTING TRUSTEES IN Bankruptcy, by L. Duckworth. Cr. 8vo. 70 pp. 1900. E. Wilson, 1s.

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MANUAL OF THE LAW OF INSOLVENCY and Bankruptcy (Scotland), by J. Murdoch. 8vo. 5th ed. Blackwood, 12s.

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PRINCIPLES OF BANKRUPTCY, by R. Ringwood. 8vo. 8th ed. 1902. Stevens & Haynes, 10s. 6d.

RIGHTS AND DUTIES OF TRUSTEES in Bankruptcy and under Deeds of Arrangement, by H. F. Wreford. 12mo. 156 pp. 1893. Waterlow, 3s. 6d.

TRUSTEES IN BANKRUPTCY: DUTIES, Powers and Responsibilities, by S. Wright. Fcp. 8vo. 60 pp. *Estates Gazette*, 1s. 6d.

(**Companies.** See section 15.)

Commercial Law.

COMMERCIAL LAW, by W. D. Edwards, LL.B. Cr. 8vo. 227 pp. 1900. Methuen, 2s.

COMMERCIAL LAW, for Commercial Classes, by J. E. C. Munro, LL.D. Gl. 8vo. 191 pp. 1899. Macmillan, 3s. 6d.

COMMERCIAL LAW IN ENGLAND, for Advanced Classes, by J. A. Slater. Cr. 8vo. 214 pp. 1902. Pitman, 2s. 6d.

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PRACTICE OF THE COMMERCIAL Court, by F. Mathew. Cr. 8vo. 1902. Butterworth, 5s.

TEXT-BOOK ON COMMERCIAL LAW, by S. C. Clark. 312 pp. 12mo. Maynard Merrill, N.Y., $1.

Commission Law.

COMMISSION LAW, by G. St. Leger Daniels. Cr. 8vo. *Estates Gazette*, 3s. 6d.

COMPENDIUM OF COMMISSION Cases: Cases as to Auctioneers' and Estate Agents, by G. St. Leger Daniels. Cr. 8vo. 3rd ed. 394 pp. 1900. *Estates Gazette*, 6s.

LAW RELATING TO COMMISSION Agents, Auctioneers, Estate and House Agents, by H. M. Giveen, B.A. Fcp. 8vo. 172 pp. 1898. Clement Wilson, 2s. 6d.

LAW RELATING TO FACTORS, MERCANTILE Agents who Sell and Buy Goods on Commission, etc., by P. T. Blackwell, B.A. Demy 8vo. 191 pp. 1897. E. Wilson, 5s.

LAW RELATING TO REMUNERATION of Commission Agents, by W. Evans, B.A. Cr. 8vo. 2nd ed. 270 pp. 1900. Horace Cox, 7s. 6d.

SALE OF GOODS ACT, 1893, including Factors Acts, 1889 and 1896, by M. D. Chalmers. 8vo. 4th ed. 1900. Clowes, 10s. 6d.

TRADER'S GUIDE TO LAW AFFECTING Sale of Goods, by L. Duckworth. Cr. 8vo. 68 pp. 1900. E. Wilson, 1s. 6d. limp.

Contract Law.

LAW OF CONTRACTS, by J. C. Wait (U.S.A.). 8vo. 331 pp. 1901. Chapman, 12s. 6d.

MANUAL OF THE LAW OF CONTRACT, for Students, by J. G. Colclough, B.A., and M. M. Ullah. Cr. 8vo. 354 pp. 1895. Jordan, 5s.

PRINCIPLES OF ENGLISH LAW OF Contract and of Agency, by Sir W. R. Anson. Royal 8vo. 10th ed. 391 pp. 1903. Frowde, 10s. 6d.

TREATISE ON THE SPECIFIC PERFORMANCE of Contracts, by Sir E. Fry. 4th ed. 1903. Stevens & Sons, 36s.

VALIDITY OF CONTRACTS IN RESTRAINT of Trade, by W. A. Jolly. 12mo. E. Wilson, 1s.

County Court.

COUNTY COURT PRACTICE MADE Easy, or Debt Collection Simplified, by a Solicitor. Cr. 8vo. 2nd ed. 152 pp. 1903. E. Wilson, 2s. 6d.

HANDY GUIDE TO AN ORDINARY Action in the County Court, by E. E. Wickham. Cr. 8vo. 264 pp. 1894. Hazell, 5s.

Licensing Law, Clubs.

LAW OF INNKEEPERS AND Licensing Acts, by T. W. Haycraft. 12mo. 120 pp. 1892. E. Wilson, 1s. 6d.

LAW OF LICENSING IN ENGLAND: Intoxicating Liquors, Theatres, etc. 8vo. 2nd ed. 828 pp. 1902. Clowes, 18s.

LAW RELATING TO CLUBS, by J. Wertheimer. 2nd ed. by A. W. Chaster. Cr. 8vo. 1889. Clowes, 7s.

PRACTICAL GUIDE TO LICENSING Act, 1902, by C. L. Rothera. Demy 8vo. 178 pp. 1902. Jordan, 3s. 6d.

Pawnbroking Law.

PAWNBROKER'S, FACTOR'S AND Merchant's Guide to the Law of Loans and Pledges, by H. C. Folkard. Lockwood, 3s. 6d.

PAWNBROKER'S LEGAL HANDBOOK, Based on Act of 1872, by Chan-Toon and J. Bruce. 12mo. 48 pp. 1895. E. Wilson, 1s. limp.

TURNER'S PAWNBROKERS' ACT, 1872. 12mo. 3rd ed. 1883. Clowes, 2s. 6d.

(**Railway Law.** See Section 57.)

(**Sale of Goods.** See **Commission Law.**)

Solicitors.

BOOK-KEEPING FOR SOLICITORS, by J. M. Woodman. Demy 8vo. 1888. Butterworth, 5s.

BOOK OF PRACTICAL FORMS, for Use in Solicitors' Offices. Vol. I. Cr. 8vo. 492 pp. 1897. E. Wilson, 5s.

SOLICITOR'S CLERK: PRACTICAL Work of a Solicitor's Office, by C. Jones. Cr. 8vo. 5th ed. 508 pp. 1902. E. Wilson, 5s.

Stamp Duties.

HANDBOOK TO STAMP DUTIES, by H. S. Bond. 8vo. 11th ed. 1899. Clowes, 2s. 6d.

HANDBOOK TO STAMP DUTIES AND Receipts, by H. Lakin-Smith. Demy 8vo. 52 pp. 1901. Gee, 2s. 6d.

HANDBOOK TO THE STAMP DUTIES, by H. S. Bond. Demy 8vo. 12th ed. 106 pp. 1902. Waterlow, 2s. 6d.

LAW OF STAMP DUTIES ON DEEDS and other Instruments, by E. N. Alpe and A. B. Cane, B.A. Cr. 8vo. 8th ed. 390 pp. 1901. Jordan, 6s.

STAMP DUTIES ON BILLS OF EXCHANGE, by A. Kolkenbeck. 16mo. 48 pp. 1895. E. Wilson, 1s. limp.

Trustee Law.

HANDY BOOK ON INVESTMENT OF Trust Funds, by R. D. Urlin. 12mo. 3rd ed. 1902. E. Wilson, 1s. limp.

INVESTMENT OF TRUST FUNDS under New Law, by R. D. Urlin. Cr. 8vo. 3rd ed. 1902. E. Wilson, 1s.

LAW OF TRUSTEES UNDER ACT, 1893, and Judicial Trustees Act, 1896, by R. D. Urlin. 12mo. E. Wilson, 1s.

LAW OF TRUSTS AND TRUSTEES under Trustee Acts, by A. R. Rudall and J. W. Greig, LL.B., B.A. Demy 8vo. 2nd ed. 364 pp. 1898. Jordan, 12s. 6d.

TRUSTEE ACT, 1893, including Guide for Trustees to Investments, by A. L. Ellis. Royal 12mo. 5th ed. 1894. Stevens & Sons, 6s.

Wills, Executors.

DUTIES OF EXECUTORS, by F. W. Dendy. 8th ed. 1902. Waterlow, 1s. 6d.

EXECUTORS AND ADMINISTRATORS: Their Duties and Liabilities; How to Prove a Will, by G. F. Emery, LL.M. Cr. 8vo. 158 pp. 1899. E. Wilson, 2s.

EXECUTORSHIP LAW AND ACCOUNTS, by F. Whinney and A. F. Whinney. Demy 8vo. 2nd ed. Gee, 7s. 6d.

LAW OF WILLS, EXECUTORS AND Administrators, by W. A. Holdsworth; with Death Duties, by G. S. Bower, B.A. Fcp. 8vo. 255 pp. 1894. Routledge, 1s.

LAW OF WILLS, FOR TESTATORS, by G. F. Emery, LL.M. 12mo. 96 pp. 1900. E. Wilson, 1s. 6d. limp.

STUDENT'S GUIDE TO EXECUTORSHIP Accounts, by R. N. Carter, A.C.A. Cr. 8vo. 115 pp. 1899. Gee, 3s. 6d.

WAY TO PROVE A WILL AND TO Make Out Administration, by A. Rumsey. 12mo. 165 pp. 1902. Jordan, 1s. 6d.

WILLS: HOW TO MAKE AND Prove Them. Cr. 8vo. 7th ed. Warne, 1s.

WILLS AND INTESTATE SUCCESSION: Manual of Practical Law, by J. Williams, B.C.L., M.A. Cr. 8vo. pp. 1891. A. & C. Black, 5s.

SECTION 41.

METALLURGY.

General.

ADVANCED METALLURGY, for Students, by W. H. Greenwood. 2 vols. Vol. I. Fuel, Iron, Steel, Tin, Antimony, etc. 344 pp. 71 Illus. 1885. 3s. 6d. Vol. II. Copper, Lead, Zinc, Mercury, Silver, Gold. Cr. 8vo. 371 pp. 67 Illus. 3s. Collins.

CHLORINATION PROCESS, by E. B. Wilson (U.S.A.). 12mo. 125 pp. 1897. Chapman, 6s. 6d.

DENTAL METALLURGY: MANUAL for Students and Dentists, by A. B. Griffiths, Ph.D. Demy 8vo. 200 pp. 36 Illus. 1903. Scott, Greenwood, 7s. 6d.

ELEMENTARY TEXT-BOOK OF Metallurgy, for Students, by A. H. Sexton. Cr. 8vo. 3rd ed. 263 pp. 71 Illus. 1903. Griffin, 6s.

ELEMENTS OF METALLURGY, by W. J. Harrison. Fcp. 8vo. 250 pp. 70 Illus. 1894. Blackie, 2s. 6d.

ELEMENTS OF METALLURGY, by J. A. Phillips; revised by H. Bauerman. Large 8vo. 3rd ed. 909 pp. 238 Illus. 3 Plates. 1891. Griffin, 36s.

HANDBOOK OF METALLURGY, by C. Schnabel; trans. by H. Louis. 2 vols. Med. 8vo. 1898. Vol. I. Copper, Lead, Silver, Gold. 876 pp. 570 Illus. Vol. II. Zinc, Mercury, Tin, Aluminium, etc. 730 pp. 356 Illus. Macmillan, 42s.

INTRODUCTION TO METALLURGICAL Chemistry, for Students, by J. H. Stansbie. Cr. 8vo. 208 pp. 1903. Simpkin, 4s. 6d.

INTRODUCTION TO STUDY OF Metallurgy, by Sir W. C. R. Austen. Demy 8vo. 5th ed. 532 pp. 1902. Griffin, 18s.

MANUAL OF METALLURGY, by G. H. Makins. 8vo. 2nd ed. 592 pp. 100 Illus. Baird, Philadelphia, $3.

MATTE SMELTING, by H. Lang (U.S.A.). Demy 8vo. 98 pp. 1896. Scientific Pub. Co., 8s. 6d.

METALLOGRAPHY: INTRODUCTION to Study of Structure of Metals, by

A. H. Hiorns. 158 pp. Illus. 1902. Macmillan, 6s.

METALS: THEIR PROPERTIES AND Treatment; Text-book of Science, by A. K. Huntington and W. G. McMillan. Fcp. 8vo. 562 pp. 122 Illus. 1901. Longmans, 7s. 6d.

NOTES ON METALLURGICAL ANALYSIS, by N. W. Lord. Chemical Pub. Co., Easton, Pa., $1.25.

PRACTICAL METALLURGY AND Assaying, by A. H. Hiorns. Gl. 8vo. 2nd ed. 490 pp. Illus. 1898. Macmillan, 6s.

TABLES FOR QUANTITATIVE METALLURGICAL Analysis, for Laboratory Use, by J. J. Morgan. Large 8vo. 16 Tables. 1899. Griffin, 4s.

TEXT-BOOK OF ELEMENTARY Metallurgy, for Students, by A. H. Hiorns. Gl. 8vo. 2nd ed. 212 pp. 81 Illus. 1895. Macmillan, 3s.

Alloys.

ALLOYS AND THEIR CONSTITUENTS, by R. H. Thurston (U.S.A.). 8vo. 2nd ed. Chapman, 10s. 6d.

BRASS-FOUNDER'S ALLOYS, by J. F. Buchanan. Cr. 8vo. 129 pp. 26 Illus. 1901. Spon, 4s. 6d.

IRON, STEEL AND OTHER ALLOYS, by H. M. Howe (U.S.A.). 8vo. 470 pp. 1903. *Engineering and Mining Journal*, 24s.

METALLIC ALLOYS: THE MANUFACTURE of Alloys, Amalgams and Solders Used by Metalworkers 8vo. 554 pp. 34 Illus. Baird, Philadelphia, $4.50.

MIXED METALS AND METALLIC Alloys, by A. H. Hiorns. Demy 8vo. 445 pp. 45 Illus. 1901. Macmillan, 6s.

Aluminium.

ALUMINIUM: ITS HISTORY, OCCURRENCE, Metallurgy and Applications, by J. W. Richards. Med. 8vo. 3rd ed. 664 pp. 1896. Baird, Philadelphia, $6.

Analysis and Assaying.

AIDS TO THE ANALYSIS AND ASSAY of Ores and Fuels, by J. J. Morgan, Fcp. 8vo. 98 pp. 8 Illus. 1902. Baillière, 2s. 6d.

ASSAYER'S GUIDE, by O. M. Lieber. 12mo. 283 pp. Baird, Philadelphia, $1.50.

ASSAYER'S MANUAL, by B. Kerl; trans. from German by W. T. Brannt. 8vo. 2nd ed. 354 pp. 87 Illus. 1902. Baird, Philadelphia.

ASSAYING, by C. H. Aaron (U.S.A.). 2 vols. Cr. 8vo. 4th ed. 1900. Vol. I. Gold and Silver Ores. Vol. II. Gold and Silver Bullion, Lead, Copper, Tin, Mercury. 142 pp. Illus. Scientific Pub. Co., 11s.

ASSAYING AND METALLURGICAL Analysis, by E. L. Rhead and A. H. Sexton. Demy 8vo. 442 pp. 1902. Longmans, 10s. 6d.

GOLD ASSAYING, by H. J. Phillips. Cr. 8vo. 150 pp. 62 Illus. 1904. Lockwood, 7s. 6d

MANUAL OF ASSAYING: FIRE Assay of Gold, Silver and Lead, by A. S. Miller (U.S.A.). 12mo. 91 pp. 38 Illus. 1900. Chapman, 4s. 6d.

MANUAL OF ASSAYING GOLD, Silver, Copper and Lead Ores, by W. L. Brown. Cr. 8vo. 9th ed. 577 pp. 132 Illus. 1900. Spon, 12s. 6d.

MANUAL OF PRACTICAL ASSAYING, by H. van F. Furman (U.S.A.). Med. 8vo. 4th ed. 390 pp. Illus. Chapman, 12s. 6d.

METALLURGICAL ANALYSIS AND Assaying: Three Years' Course for Students, by W. A. Macleod and C. Walker. Royal 8vo. 330 pp. 109 Illus. 1903. Griffin, 12s. 6d.

MICROSCOPIC ANALYSIS OF METALS, by F. Osmond, trans. by J. E. Stead, Cr. 8vo. 188 pp. 1904 Griffin, 7s. 6d.

NOTES ON ASSAYING, by P. de P. Richetts (U.S.A.). Demy 8vo. 311 pp. 39 Illus. 1897. Chapman, 12s. 6d.

PRACTICAL INSTRUCTIONS IN Quanitative Assaying with the Blowpipe, by E. L. Fletcher (U.S.A.). Cr. 8vo. 1894. Chapman, 6s. 6d.

TEXT-BOOK OF ASSAYING, by C. and J. J. Beringer. Cr. 8vo. 9th ed. 472 pp. 82 Illus. 1904. Griffin, 10s. 6d.

(See also Iron Analysis below.)

Copper.

COPPER HANDBOOK: MANUAL OF Copper Industry of World. (U.S.A.). Vol. III. for 1902. 8vo. 600 pp. Vol. IV. for 1903. Gay & Bird, 22s. 6d. each.

HYDRO-METALLURGY OF COPPER, by M. Eissler. Demy 8vo. 240 pp. 1902. Lockwood, 12s. 6d.

MODERN COPPER SMELTING, by Dr. E. D. Peters (U.S.A.). Demy 8vo. 10th ed. 642 pp. Plates and Illus. 1899. Scien. Pub. Co., 21s.

MODERN ELECTROLYTIC COPPER Refining, by T. Ulke (U.S.A.). Demy 8vo. 170 pp. 85 Illus. 1903. Chapman, 12s. 6d.

Electro-smelting, Refining.

ART OF ELECTROLYTIC SEPARATION of Metals, by G. Gore. 300 pp. 106 Illus. *Electrician*, 10s. 6d.

ELECTRIC SMELTING AND REFINING, trans. from Dr. W. Borchers. Large 8vo. 416 pp. 188 Illus. 3 Plates. 1897. Griffin, 21s.

TREATISE ON ELECTRO-METALLURGY, by W. G. McMillan. Large cr. 8vo. 2nd ed. 440 pp. 109 Illus. 1899. Griffin, 10s. 6d.

Gold Mining and Milling.

ACCOUNTS OF GOLD MINING AND Exploration Companies, with Instructions for Rendering to Head Office, by T. Donald. Demy 8vo. 2nd ed. 55 pp. 1901. E. Wilson, 3s. 6d.

CYANIDE PRACTICE, by A. James. Cr. 4to. 174 pp. 12 Plates. 9 Plans. 1901. Spon, 15s.

CYANIDE PROCESS FOR GOLD AND Silver Ores, by E. B. Wilson. U.S.A.). 2nd ed. 116 pp. 1897. Chapman, 6s. 6d.

CYANIDE PROCESS OF GOLD EXTRACTION, by M. Eissler. Large cr. 8vo. 2nd ed. 158 pp. 1898. Lockwood, 7s. 6d.

CYANIDE PROCESS OF GOLD EXTRACTION, by J. Park. Large cr. 8vo. 3rd English ed. 166 pp. Illus. 11 Plates. 1904. Griffin, 7s. 6d.

CYANIDING GOLD AND SILVER by H. F. Julian. Royal 8vo. 1904. Griffin, 21s.

DIAMOND DRILLING FOR GOLD and other Minerals, by G. A. Denny. Med. 8vo. 168 pp. Illus. 1900. Lockwood, 12s. 6d.

FIELD TESTING FOR GOLD AND Silver, by W. H. Merritt. 18mo. Illus. Plates. 156 pp. 1900. Lockwood, 5s.

GETTING GOLD, by J. C. F. Johnson. Large cr. 8vo. 2nd ed. 204 pp. 50 Illus. 1898. Griffin, 3s. 6d.

GOLD MINING AND MILLING IN Western Australia, by A. G. Charleton. Imp. 8vo. 662 pp. 1903. Spon, 25s.

HANDBOOK OF GOLD MILLING, by H. Louis. Cr. 8vo. 2nd ed. 591 pp. 134 Illus. 1899. Macmillan, 10s.

HANDBOOK OF PRACTICAL CYANIDE Operations, by W. H. Gaze, M.D. 8vo. Illus. 9 Plates. Spon, 7s. 6d.

HYDRAULIC GOLD MINER'S Manual, by T. S. G. Kirkpatrick, M.A. 12mo. 2nd ed. 46 pp. Illus. 1897. Spon, 4s.

LAW OF GOLD MINING IN Australia and New Zealand, by H. J. Armstrong. Royal 8vo. 2nd ed. 1901. Sweet & Maxwell, 40s.

METALLURGY OF GOLD, by M. Eissler. Med. 8vo. 5th ed. 664 pp. 300 Illus. Plates. 1900. Lockwood, 21s.

METALLURGY OF GOLD, by T. K. Rose; ed. by Sir W. C. Roberts-Austen. Demy 8vo. 4th ed. 570 pp. 1902. Griffin, 21s.

ORGANISATION OF GOLD MINING Business, with Specimens of Departmental Report Books, by N. Brown. Fcp. folio. Spon, 25s.

PRACTICAL GOLD MINING, by C. G. W. Lock. Royal 8vo. 271 Illus. 8 Plates. Spon, 42s.

PRACTICAL GOLD MINING: ITS Commercial Aspects, Collection of Statistics, etc. 8vo. 216 pp. 1902. W. R. Russell, 15s.

PRACTICAL NOTES ON THE CYANIDE Process, by F. L. Bosqui (U.S.A.). 201 pp. Illus. 1899. Scientific Pub. Co., 10s. 6d.

PRINCIPLES AND PRACTICE OF Gold Milling, by C. G. W. Lock. Demy 8vo. 823 pp. 208 Illus. 1901. Spon, 30s.

PROSPECTING FOR GOLD, by D. J. Rankin. Fcp. 8vo. 178 pp. 1901. Lockwood, 7s. 6d.

STAMP MILLING OF GOLD ORES, by T. A. Richard (U.S.A.). 2nd ed. 260 pp. Illus. 1899. Scientific Pub. Co., 10s. 6d.

Iron Analysis and Metallurgy.

ANALYSES OF PIG-IRON, by Seymour R. Church. 2 vols. Vol. I. 1900. Vol. II. 1903. S. R. Church, San Francisco, $5 each.

CAST-IRON: RECORD OF ORIGINAL Research, by W. J. Keep. 8vo. 225 pp. 117 Illus. 1902. Wiley, N.Y., $2.50.

CHEMICAL ANALYSIS OF IRON, by A. A. Blair. 5th ed. 319 pp. 105 Illus. 1902. Lippincott, 18s.

IRON ORES OF GREAT BRITAIN and Ireland, by J. D. Kendall. Cr. 8vo. 430 pp. 41 Illus. 5 Plates. 1893. Lockwood, 16s.

METALLURGY OF CAST-IRON, by T. D. West. Cr. 8vo. 6th ed. 627 pp. 153 Illus. 1903. Spon, 12s. 6d.

METALLURGY OF IRON, by T. Turner. Large cr. 8vo. 2nd ed. 367 pp. 80 Illus. 1900. Griffin, 16s.

METHODS FOR ANALYSIS OF ORES, Pig-iron and Steel, by F. C. Phillips. 2nd ed. 170 pp. 1901. Chemical Pub. Co., Easton, Pa., U.S.A., $1.

PRACTICAL MANUAL OF CHEMICAL Analysis and Assaying, by L. L. de Koninch and E. Dietz. 12mo. 282 pp. Baird, Philadelphia, $1.50.

SIDEROLOGY: THE SCIENCE OF Iron (Constitution of Iron Alloys and Slags), trans. from German of H. F. v. Jüptner. Demy 8vo. 350 pp. 10 Illus. 11 Plates. 1902. Scott, Greenwood, 10s. 6d.

TABLES FOR IRON ANALYSIS, by J. A. Allen (U.S.A.). 8vo. 1896. Chapman, 12s. 6d.

TEMPERING IRON HARDENED BY Overstrain, by J. Muir. 4to. 32 pp. 1902. Dulau, 2s.

TREATISE ON THE METALLURGY of Iron, by H. Bauerman. 12mo. 5th ed. 515 pp. Illus. Baird, Philadelphia, $2.

(**Steel.** See below.)

Lead.

LEAD AND ITS COMPOUNDS, by T. Lambert. Demy 8vo. 226 pp. 40 Illus. 1902. Scott, Greenwood, 7s. 6d.

LEAD SMELTING: CONSTRUCTION, Equipment and Operation of Lead Blast Furnaces, by M. W. Iles (U.S.A.). Cr. 8vo. 211 pp. 11 Illus. 1902. Chapman, 10s. 6d.

METALLURGY OF ARGENTIFEROUS Lead, Smelting Silver-lead Ores, by M. Eissler. Cr. 8vo. 400 pp. 183 Illus. 1891. Lockwood, 12s. 6d.

METALLURGY OF LEAD AND SILVER, by H. F. Collins. Large cr. 8vo. Vol. I. Lead: Smelting, Desilverisation, Analysis. 368 pp. 157 Illus. 1899. Vol. II. Silver: Sources and Treatment, Plant, Manufacture, etc. 352 pp. 74 Illus. 1900. Griffin, 16s. each.

METALLURGY OF LEAD AND THE Desilverisation of Base Bullion, by Dr. H. O. Hofman (U.S.A.). Demy 8vo. 5th ed. 560 pp. 44 Illus. 1899. Scientific Pub. Co., 25s.

NOTES ON LEAD AND COPPER Smelting and Copper Converting, by H. W. Hixon (U.S.A.). Demy 8vo. 3rd ed. 128 pp. Plates. 1900. Scientific Pub. Co., 12s. 6d.

NOTES ON LEAD ORES: THEIR Distribution and Properties, by J. Fairie. Cr. 8vo. 64 pp. 1901. Scott, Greenwood, 2s. 6d.

WEIGHTS AND MEASUREMENTS OF Sheet Lead, by J. Alexander. 32mo. 32 pp. 1901. Spon, 1s. 6d.

(**Mining.** See section 43.)

Silver.

CYANIDE PROCESS OF GOLD AND Silver Ores, by E. B. Wilson. (U.S.A.). Cr. 8vo. 2nd ed. 116 pp. 1897. Chapman, 6s. 6d.

METALLURGY OF SILVER, by H. F. Collins. Large cr. 8vo. 352 pp. 74 Illus. 1900. Griffin, 16s.

METALLURGY OF SILVER, by M. Eissler. Cr. 8vo. 3rd ed. 362 pp. 150 Illus. 1896. Crosby Lockwood, 10s. 6d.

METALLURGY OF SILVER, GOLD and Mercury in the United States, by T. Egleston, LL.D. 2 vols.

Royal 8vo. Vol. I. Silver. 1887. Vol. II. Gold and Mercury. 1890. *Engineering*, 31s. 6d. each.

Steel.

AMERICAN STANDARD SPECIFICATIONS for Steel, by A. L. Colby. Cr. 8vo. 2nd ed. 103 pp. 1902. Chemical Pub. Co., Easton, Pa., $1.10.

AMERICAN STEELWORKER, by E. R. Markham. Cr. 8vo. 343 pp. 160 Illus. 1903. Derry-Collard Co., N.Y.,

ANALYSIS OF STEELWORKS MATERIALS, by H. Brearley. 8vo. 518 pp. Illus. 1902. Longmans, 14s.

CUPOLA FURNACE, by E. Kirk. Med. 8vo. 2nd ed. 361 pp. 80 Illus. 1902. Baird, Philadelphia, $3.50.

DRAWINGS RELATING TO OPEN-HEARTH STEEL, by M. A. Pavloff. Part I. Furnaces. Obl. folio. 52 Plates. 1904. A. Owen & Co, 15s.

HARDENING AND TEMPERING OF Steel in Theory and Practice, trans. from German of F. Reiser. Cr. 8vo. 120 pp. 1903. Scott, Greenwood, 5s.

HARDENING, TEMPERING, ANNEALING and Forging of Steel, by J. V. Woodworth (U.S.A.). Royal 8vo. 288 pp. 1903. Gay & Bird, 12s. 6d.

KRUPP'S STEELWORKS, trans. from German of F. C. G. Müller. 4to. 196 pp. 88 Illus. 1898. Heinemann, 25s.

MANAGEMENT OF STEEL, by G. Ede. Cr. 8vo. 7th ed. Spon, 5s.

MANUFACTURE OF STEEL, by F. Overman. 12mo. 285 pp. Baird, Philadelphia, $1.50.

MECHANICAL TREATMENT OF STEEL, by J. W. Hall. Royal 8vo. 782 pp. 1904. Griffin, 25s.

METALLURGY OF STEEL, by F. W. Harbord, 1904, Griffin, 25s.

METALLURGY OF STEEL, by H. M. Howe (U.S.A.). Royal 4to. 4th ed. Spon, 42s.

MICROSCOPIC INTERNAL FLAWS, Inducing Fracture in Steel, by T. Andrews. 8vo. 1897. Spon, 2s.

POINTS FOR BUYERS AND USERS *of Tool Steel*, by G. W. Alling. 8vo. 224 pp. 1903. D. Williams & Co., N.Y., $2.

STEEL AND IRON FOR ADVANCED Students, by A. H. Hiorns. Cr. 8vo. 530 pp. 1903. Macmillan, 10s. 6d.

STEEL: MANUAL FOR STEEL USERS, by W. Metcalf (U.S.A.). Cr. 8vo. 170 pp. Illus. 1896. Chapman, 8s. 6d.

STEELWORKS ANALYSIS, by J. O. Arnold. Cr. 8vo. 2nd ed. 350 pp. 22 Illus. 1900. Whittaker, 10s. 6d.

TOOL STEEL: CONCISE HANDBOOK on Tool Steel in General, trans. from O. Thallner (U.S.A.). Royal 8vo. 196 pp. 69 Illus. 1902. Low, 10s. 6d.

TREATISE ON STEEL: THEORY, Metallurgy and Properties, by M. H. C. Landrin, Jun., trans. from French. Cr. 8vo. 352 pp. Baird, Philadelphia, $2.50.

USE OF STEEL FOR CONSTRUCTIVE Purposes, by J. Barba. 12mo. Van Nostrand, N.Y., $1.50.

WEIGHTS OF STEEL BARS IN Flats, Squares, Rounds, etc., and Weight of Sheets, by F. Barker. Cr. 8vo. 2nd ed. 36 pp. 1898. Feildon Pub. Co., 1s. limp.

(**Iron Analysis.** See above.)

Tin.

CORNISH MINING TIN. 4to. 1903. *Mining Journal*, 2s. 6d.

PRODUCTION OF TIN, with Map, by H. Louis, M.A. *Mining Journal*, 3s.

TIN: DESCRIBING THE CHIEF Methods of Mining, Dressing and Smelting it Abroad, by A. G. Charleton. Large cr. 8vo. 83 pp. 14 Plates. 1884. Spon, 12s. 6d.

TIN MINING IN SPAIN, by W. C. Borlase. 4to. 40 pp. Illus. 1898. E. Wilson, 2s. 6d.

Zinc.

METALLURGY OF ZINC, by W. R. Ingalls. Royal 8vo. 700 pp. 1903. *Engineering and Mining Journal*, 25s.

PRODUCTION AND PROPERTIES OF Zinc, by W. R. Ingalls. Royal 8vo. 350 pp. Illus. 1903. *Engineering and Mining Journal*, 12s. 6d.

SECTION 42.

MILITARY.

Administration, Officers.

AIDS TO MANŒUVRE DUTIES, by an Adjutant. 32mo. 39 pp. 1900. Gale & Polden, 6d. limp.

ARMY OFFICER'S EXAMINER, by Lieut.-Col. W. H. Powell (U.S.A.). Cr. 8vo. 2nd ed. 625 pp. Illus. 4550 Questions and Answers. 1899. Chapman, 17s.

CATECHISM ON FIELD TRAINING, by L. Davidson. Cr. 8vo. 2nd ed. 1903. Gale & Polden, 2s. 6d.

MILITIA AND VOLUNTEER OFFICERS: Guide to Promotion from Subaltern to Field Officer, by S. T. Banning. Cr. 8vo. 170 pp. 1903. Gale & Polden, 3s. 6d.

MILITIA OFFICERS' EXAMINER, from Rank of Lieutenant to Field Officer, by Major H. S. Thompson. 11th ed. 1903. Eyre & Spottiswoode, 4s. 6d.

MILITIA OFFICER'S GUIDE TO Promotion from Rank of Lieutenant to Field Officer, by Captain W. Plomer. Cr. 8vo. 143 pp. 1899. Gale & Polden, 3s. 6d. limp.

MILITIA OFFICER'S INSTRUCTOR, by G. W. Redway. 12mo. 246 pp. 1903. Paul, 4s. 6d.

NON-COMMISSIONED OFFICER'S Guide to Promotion, by Captain G. D'Arcy Evans. Cr. 8vo. 328 pp. Illus. 1901. Gale & Polden, 3s. 6d.

NOTES ON MANŒUVRES, compiled by Colonel C. A. Bridge, C.B. 1898. Eyre & Spottiswoode, 2s.

NOTES ON WRITING ORDERS AND Reports in the Field, by H. C. Evans. 16mo. 1902. Gale & Polden, 2s. limp.

ORGANISATION AND EQUIPMENT Made Easy, for Promotion Examinations, by Major S. T. Banning, LL.B., B.A., LL.D. 2nd ed. 142 pp. 1901. Gale & Polden, 4s. 6d.

PERMANENT SYSTEM OF MILITARY Administration, for Officers, by Major J. W. Buxton. Small cr. 8vo. 560 pp. 1883. Kegan Paul, 7s. 6d.

PRINCIPLES OF LAND DEFENCE and their Application to the Conditions of To-day, by H. F. Thuillier. 8vo. 396 pp. 1902. Longmans, 12s. 6d.

REGIMENTAL DUTIES MADE EASY, for Promotion Examinations, by Major S. T. Banning, LL.B., LL.D., B.A. Cr. 8vo. 162 pp. 1900. Gale & Polden, 5s. limp.

VOLUNTEER OFFICER'S GUIDE TO Promotion and Sergeant's Guide to Proficiency in the Infantry, by Captain G. D'Arcy Evans. Cr. 8vo. 279 pp. Illus. 1899. Gale & Polden, 3s. 6d. limp.

Ambulance.

AMBULANCE HANDBOOK FOR Volunteers and Others, by J. A. Raye, L.R.C.P.I. Cr. 8vo. 16 Plates. 1884. Churchill, 3s. 6d.

MANUAL OF AMBULANCE, by G. S. Riddell. Cr. 8vo. 240 pp. 1904. Griffin, 4s.

MANUAL OF AMBULANCE TRANSPORT, by Surgeon-General Sir T. Longmore, C.B. 2nd ed. 1893. Eyre & Spottiswoode, 6s.

SOLDIER'S FIRST AID HANDBOOK, by W. D. Dietz (U.S.A.). 16mo. 94 pp. 1891. Chapman, 5s. 6d.

(**First Aid, Hospitals.** Section 32.).

Artillery.

FIELD ARTILLERY: ITS EQUIPMENT, Organisation and Tactics, by Lieut.-Col. S. C. Pratt. Cr. 8vo. 7th ed. 250 pp. 1900. Kegan Paul, 6s.

HANDBOOK OF LIGHT ARTILLERY, by A. B. Dyer (U.S.A.). Cr. 8vo. 521 pp. 135 Illus. 1896. Chapman, 12s. 6d.

MANUAL OF HYDRAULICS FOR Garrison Artillery. 1896. Eyre & Spottiswoode, 4s. 6d.

MODERN FRENCH ARTILLERY, by J. Dredge. Imp. 4to. 500 pp. 700 Illus. 1892. *Engineering*, 50s.

TACTICAL EMPLOYMENT OF QUICK-FIRING Field Artillery, by G. Rouquerol; trans. from French. Cr. 8vo. 250 pp. 1903. Rees, 6s.

Cavalry.

CAVALRY ELEMENTARY VETERINARY Manual, for Officers Attending Veterinary Classes, by Surgeon-Captain B. Seton. Cr. 8vo. 110 pp. 1895. Gale & Polden, 2s. 6d.

CAVALRY OUTPOST DUTIES, by F. de Brach; trans. from French by Major C. C. Carr (U.S.A.). 16mo. Chapman, 8s. 6d.

HINTS ON STABLE MANAGEMENT for Cavalry, by Major M. F. Rimington. 32mo. 70 pp. Gale & Polden, 1s. limp.

INSTRUCTIONS FOR THE TRAINING, Employment and Leading of Cavalry, by Major-General C. von Schmidt; trans. by Captain C. W. B. Bell. 1898. Eyre & Spottiswoode, 3s. 6d.

NOTES ON CAVALRY TACTICS, Organisation, etc., with Diagrams, by a Cavalry Officer. Demy 8vo. 282 pp. 1878. Kegan Paul, 12s.

QUESTIONS AND ANSWERS ON Cavalry Outposts, by Major R. H. Morrison. 32mo. 64 pp. Gale & Polden, 1s. limp.

STUDIES IN CAVALRY TROOP Leading, by Colonel J. von Verdy du Vernois; trans. by W. H. Harrison. 2nd ed. 1891. Eyre & Spottiswoode, 5s.

(**Horses.** See section 31.)

Commissariat.

ART OF SUBSISTING ARMIES IN War, by Major H. G. Sharpe (U.S.A.). 16mo. 222 pp. 1893. Chapman, 6s. 6d.

MILITARY CARRIAGES AND OTHER Stores Connected with Them. 5th ed. 1895. Eyre & Spottiswoode, 6s.

MILITARY COOKING MANUAL. 1899. Eyre & Spottiswoode, 6d.

Drawing, Maps.

ARMY GEOMETRICAL DRAWING and Geography Papers. Demy 8vo. 90 pp. 1901. Simpkin, 4s.

HOW TO PASS IN TOPOGRAPHY, by G. W. Redway. 12mo. 320 pp. 1904. Kegan Paul, 7s. 6d.

MILITARY ATLAS. 4to. 40 pp. 116 Maps and Plans. 1900. Gale & Polden, 2s.

MILITARY SKETCHING MADE EASY, by Colonel H. D. Hutchinson. Post 8vo. 5th ed. 208 pp. 34 Plates and Illus. 1891. Gale & Polden, 4s.

MILITARY TOPOGRAPHY, by Major-General W. E. Montague. Cr. 8vo. 64 pp. 41 Diagrams. 1893. Blackwood, 5s.

OUTLINES OF MILITARY GEOGRAPHY, by T. M. Maguire. Cr. 8vo. 370 pp. 27 Illus. 1899. Cambridge University Press, 10s. 6d.

PRACTICAL MILITARY SKETCHING, by C. F. V. Byl. Post 8vo. 75 pp. 7 Plates. 1901. Gale & Polden, 3s. 6d.

QUESTIONS AND ANSWERS IN THE Theory and Practice of Military Topography, by Major J. H. Bowhill. Cr. 8vo. 172 pp. 34 Drawings. 1898. Blackwood, 8s.

STUDIES IN MAP READING AND Field Sketching, by Lieut.-Col. W. J. Shaw. 12mo. 160 pp. 1902. Kegan Paul, 6s.

TOPOGRAPHICAL DRAWING AND Sketching, by Lieutenant H. A. Reed (U.S.A.). 4to. 4th ed. 66 pp. 57 Illus. Chapman, 21s.

Drill.

ATTACK DRILL MADE EASY, by W. Gordon. 32mo. 11th ed. 134 pp. Illus. 1899. Gale & Polden, 2s. limp.

BATTALION DRILL MADE EASY, by Captain L. Davidson. 32mo. 10th ed. 339 pp. Illus. 1901. Gale & Polden, 2s. 6d.

COMPANY DRILL MADE EASY, by Captain L. Davidson. 32mo. 176 pp. Illus. 1900. Gale & Polden, 1s. 6d. limp.

GUIDES AND MARKERS' DUTIES IN Company, Battalion and Brigade Movements, by Captain L. Davidson. 32mo. 10th ed. 322 pp. Illus. 1898. Gale & Polden, 2s. limp.

Explosives.

COMPRESSED GUN COTTON FOR Military Use, trans. from German of Max v. Förster. 18mo. 164 pp. Spon, 2s. boards.

DICTIONARY OF EXPLOSIVES, by Cundall and Thompson (supplied by

permission of Home Office). Eyre & Spottiswoode, 21s.

DISCOVERY OF PICRIC ACID (Melinite, Lyddite) as a Powerful Explosive, by H. Sprengel. 2nd ed. 1903. Eyre & Spottiswoode, 2s.

EXPLOSIVE MATERIALS: PHENOMENA and Theories of Explosives and their Classification, Constitution, and Preparation, by Lieutenant J. P. Wisser (U.S.A.). 18mo. 160 pp. Spon, 2s.

GUIDE BOOK TO EXPLOSIVES ACT, 1875, by Sir V. D. Majendie. 1902. Eyre & Spottiswoode, 2s. 6d.

LARGE EXPLOSIVES AND THEIR Radii of Danger, by Lieut.-Col. J. T. Bucknill. Demy 4to. 1883. *Engineering*, 2s. 6d. paper.

LECTURES ON EXPLOSIVES, by W. Walke (U.S.A.). 8vo. 2nd ed. Chapman, 17s.

MACHINERY FOR THE MANUFACTURE of Smokeless Powder, by O. Guttmann. 51 pp. 5 Plates. 1901. Institute of Civil Engineers.

MANUFACTURE OF EXPLOSIVES, by O. Guttmann. 2 vols. Med. 8vo. 892 pp. 328 Illus. 1895. Whittaker, 42s.

MODERN HIGH EXPLOSIVES: Nitro-Glycerine and Dynamite, by M. Eissler (U.S.A.). Demy 8vo. 3rd ed. 395 pp. 129 Illus. 1893. Chapman, 17s.

SMOKELESS POWDER, NITROCELLULOSE and Theory of Cellulose Molecule, by J. B. Bernadou (U.S.A.). Cr. 8vo. 200 pp. 11 Illus. 1901. Chapman, 10s. 6d.

TREATISE ON AMMUNITION. 6th ed. 1897. Eyre & Spottiswoode, 6s.

(**Ordnance.** See below.)

Electricity.

MANUAL OF INSTRUCTION IN ARMY Field Telegraphs. 1897. Eyre & Spottiswoode, 3s.

NOTES ON ELECTRICITY FOR USE of Garrison Artillery, by J. R. J. Jocelyn. 1902. Eyre & Spottiswoode, 1s. 6d.

NOTES ON MILITARY TELEGRAPH Instruments, by Major H. F. Turner. Illus. 1885. Eyre & Spottiswoode, 1s. 6d.

(See also section 19.)

Fighting.

ART OF WAR, for Cadets of U.S. Military Academy, by J. B. Wheeler. 12mo. Van Nostrand, N.Y., $1.75.

ATTACK ON FORTIFIED PLACES, including Siege Works, Mining and Demolitions, by J. Mercur (U.S.A.). Cr. 8vo. 198 pp. 12 Plates. 1894. Chapman, 8s. 6d.

ELEMENTS OF THE ART OF WAR, by J. Mercur (U.S.A.). 8vo. 3rd ed. Plates. Chapman, 17s.

HINTS FOR A BUSH CAMPAIGN, by Lieut.-Col. A. F. Montanoro. 18mo. 52 pp. 1901. Sands, 1s.

PRACTICAL BAYONET FIGHTING, by F. B. Foerster. 32mo. 68 pp. Illus. 1900. Gale & Polden, 6d. limp.

PREPARATORY BATTLE FORMATION, by Major-General H. M. Bengough. 2nd ed. 8 pp. 3 Plates. 1900. Gale & Polden, 1s. paper.

SMALL WARS: THEIR PRINCIPLES and Practice, by Captain C. E. Callwell. 1899. Eyre & Spottiswoode, 5s.

Fortification.

ELEMENTS OF FIELD FORTIFICATIONS, for Cadets of the U.S. Military Academy. 12mo. Van Nostrand, N.Y., $1.75.

FIELD FORTIFICATION: EXAMINATION Manual, by H. Turner. Cr. 8vo. 242 pp. 1892. Sonnenschein, 6s.

FORTIFICATION AND MILITARY Engineering. Part I. Field Defences. 7th ed. 1902. 1s. 6d. Part II. Permanent Fortification, Siege Work, Coast Defence. 1894. 6s. Eyre & Spottiswoode.

MEMORANDA AND FORMULÆ ON Fortification and Topography, for Students, by Colonel H. M. S. Brunker. Cr. 8vo. 96 pp. Illus. 1898. Thacker, 3s.

NOTES ON FORTIFICATION, by Major B. R. Ward. Demy 8vo. 1902. J. Murray, 5s.

NOTES ON THE TEXT-BOOKS ON Field Fortifications, for Officers, by Colonel H. D. Hutchinson. Cr. 8vo. 5th ed. 250 pp. 1904. Gale & Polden, 4s.

Fortification, *continued.*

TEXT-BOOK ON FIELD FORTIFICATION, by G. J. Fiebeger (U.S.A.). Cr. 8vo. 177 pp. 29 Coloured Maps. 1901. Chapman, 8s. 6d.

Hygiene.

DRAINAGE MANUAL FOR USE OF Royal Engineer Officers. 1897. War Office, 3s.

GUIDE TO MEAT INSPECTION, for Regimental Officers, by Captain Stacpole. 1894. Eyre & Spottiswoode, 1s. 6d.

NOTES ON MILITARY HYGIENE, for Officers of the Line, by A. A. Woodhull (U.S.A.) 12mo. 181 pp. Illus. 1898. Chapman, 6s. 6d.

SANITATION OF BRITISH TROOPS in India, by Major E. C. Freeman. Cr. 8vo. 2nd ed. 127 pp. 1901. Rebman, 2s. 6d.

THEORY AND PRACTICE OF Military Hygiene, by E. L. Munson, A.M., M.D. (U.S.A.). Demy 8vo. 972 pp. 389 Illus. 8 Plates. 1901. Baillière, 32s.

(Also **Hygiene.** See section 34.)

Infantry.

CATECHISM ON FIELD TRAINING (Infantry), by Captain L. Davidson. Cr. 8vo. 291 pp. 28 Plates. 1900. Gale & Polden, 2s. 6d. limp.

DRUM AND FLUTE DUTY FOR THE Infantry. 1887. Eyre & Spottiswoode, 2s.

FIELD TRAINING OF A COMPANY of Infantry, by H. J. Craufurd. 12mo. 120 pp. 1902. E. Arnold, 2s. 6d.

INFANTRY FIRE TACTICS, by Major C. B. Mayne. Cr. 8vo. 2nd ed. 526 pp. Plates. Gale & Polden, 6s.

PRACTICAL HINTS FOR MOUNTED Infantry, by B. L. Anley. 32mo. 40 pp. Illus. 1901. Gale & Polden, 6d. paper.

SEPOY OFFICER'S MANUAL, for Infantry Officers, by Captain E. G. Barrow; 3rd ed. rewritten by Captain E. H. Bingley. 12mo. 3rd ed. 168 pp. with Tables. 1895. Thacker, 2rs. 8an.

TACTICAL QUESTIONS AND ANSWERS on the Infantry Drill Book, 1892, by Captain H. R. Gall. Cr. 8vo. 3rd ed. Cr. 8vo. 82 pp. 1892. Kegan Paul, 1s. 6d. paper.

(**Maps.** See **Drawing** above.)

Military Law.

ABRIDGMENT OF MILITARY LAW, by Colonel W. Winthrop (U.S.A.). Cr. 8vo. 3rd ed. 460 pp. Chapman, 10s. 6d.

MANUAL OF MILITARY LAW. 1899. Eyre & Spottiswoode, 2s.

MILITARY LAW EXAMINER: Questions Set at Examinations from 1890-1900, with Answers, by Lieut.-Colonel S. C. Pratt, R.A. Cr. 8vo. 4th ed. 288 pp. 1900. Gale & Polden, 4s. 6d.

MILITARY LAW: ITS PROCEDURE and Practice, by S. C. Pratt. 12mo. 15th ed. 290 pp. 1902. Paul, 4s. 6d.

MILITARY LAW MADE EASY, for Promotion Examinations, by Major S. T. Banning, LL.B., B.A., LL.D. Gale & Polden, 4s. 6d.

TEXT-BOOK OF INDIAN MILITARY Law, by Captain E. H. Bernard. Cr. 8vo. 643 pp. 1896. Thacker, 12s.

Military Terms.

ALPHABETICAL FRENCH-ENGLISH List of Technical Military Terms, for Military Students, by M. Deshumbert. 8vo. 1903. Nutt, 1s. 6d.

VOCABULARY OF TECHNICAL Military Terms: English-German, German-English, for Students, by Professor J. A. Liebmann. Cr. 8vo. 215 pp. 1896. Gale & Polden, 5s.

(**Officers.** See **Administration** above.)

Ordnance, Gunnery.

ART OF REVOLVER SHOOTING, by W. Winans (U.S.A.). 4to. 252 pp. 100 Illus. Plates. 1901. Putnam, 21s.

BALLISTIC TABLES FOR DIRECT, Curved and High-angle Fire, by Major J. M. Ingalls (U.S.A.). Demy 8vo. 82 pp. 1894. Chapman, 6s. 6d.

BREECH-LOADER, AND HOW TO Use it, by W. W. Greener. 5th ed. 330 pp. Illus. 1899. Cassell, 3s. 6d.

GUNS AND GUN-MAKING MATERIAL, by G. Ede. Cr. 8vo. 74 pp. 1889. Spon, 6s.

HANDBOOK OF PROBLEMS IN Direct Fire, by J. M. Ingalls (U.S.A.). Demy 8vo. 308 pp. and 80 pp. of Tables. 1893. Chapman, 17s.

INTERNAL BALLISTICS, by J. A. Longridge. Demy 8vo. 240 pp. 1889. Spon, 18s.

MILITARY ARTIFICER'S HANDBOOK, Prepared in the Ordnance College. 8th ed. 1899. Eyre & Spottiswoode, 1s. 6d.

MINIATURE RIFLE SHOOTING, by L. R. Tippins. 12mo. Illus. 1903. Low, 2s.

NOTES ON THE RIFLE, by Major T. F. Fremantle. Demy 8vo. 178 pp. Illus. 1896. Vinton, 5s.

ORDNANCE AND GUNNERY, for Cadets of U.S. Military Academy, by Captain H. Metcalfe (U.S.A.). Cr. 8vo. 3rd ed. 350 Illus. Chapman, 21s.

PRACTICAL GUNNERY IN LECTURE-ROOM and Field, compiled by H. T. Russell. 8vo. Illus. 1903. Gale & Polden, 2s. 6d. limp.

TEXT-BOOK OF GUNNERY, Prepared in Ordnance College. 1902. Eyre & Spottiswoode, 10s. 6d.

TEXT-BOOK OF MILITARY SMALL Arms and Ammunition. 1895. Eyre & Spottiswoode, 2s. 6d.

TEXT-BOOK OF ORDNANCE AND Gunnery, for Use of Cadets of U.S. Military Academy, by Captain L. L. Bruff (U.S.A.). Royal 8vo. 677 pp. 401 Illus. 1896. Chapman, 25s.

THE GUN: AFIELD AND AFLOAT, by H. Sharp. Demy 8vo. 338 pp. 1903. Chapman, 12s. 6d.

THEORY AND PRACTICE OF TARGET Shooting by A. G. Foulkes, M.A. Demy 8vo. 228 pp. Plates and Illus. 1895. Horace Cox, 10s. 6d.

TREATISE ON THE APPLICATION OF Wire to Construction of Ordnance, by J. A. Longridge. Demy 8vo. 163 pp. 1884. Spon, 25s.

TREATISE ON ORDNANCE SERVICE. 5th ed. 1901. Eyre & Spottiswoode, 10s.

(**Explosives.** See above.)

Scouting.

AIDS TO SCOUTING, for Non-commissioned Officers and Men, by Major-General R. S. S. Baden-Powell. 32mo. 138 pp. 1900. Gale & Polden, 1s. limp.

SCOUT'S ALPHABET OF NOTES AND Queries. 32mo. 1903. Gale & Polden, 1s.

Strategy, Tactics.

ELEMENTS OF MODERN TACTICS Practically Applied to English Formations, by Lieut.-Colonel W. J. Shaw, M.A. Post 8vo. 11th ed. 511 pp. 31 Illus. 1900. Paul, 9s.

LETTERS ON APPLIED TACTICS, trans. from Major Griepenkerl. Sq. demy 8vo. 2nd ed. 551 pp. 9 Maps. 1901. Sands & Co., 8s.

MINOR TACTICS, by General C. F. Clery. Cr. 8vo. 13th ed. 419 pp. 26 Maps. 1896. Kegan Paul, 9s.

MODERN EUROPEAN TACTICS: Employment of Infantry, by Captain Balck; trans. by L. R. M. Maxwell. Vol. I. Large cr. 8vo. 388 pp. 1899. Sands, 7s. 6d.

MODERN STRATEGY, with Plans, by Lt.-Col. W. H. James. Royal 8vo. 1902. With 6 Maps. Blackwood & Sons, 16s.

MOLTKE'S TACTICAL PROBLEMS, from 1858 to 1882; ed. by Prussian Grand General Staff; trans. by Kv. Donat. 8vo. 27 Plans. 9 Maps. 1903. H. Rees, 10s. 6d.

PRÉCIS OF MODERN TACTICS, compiled by Colonel Home and revised by Lieut.-Colonel S. C. Pratt. 2nd ed. 1896. Eyre & Spottiswoode, 3s.

PRELIMINARY TACTICS, for Junior Officers, by Major E. Baker, R.A. Cr. 8vo. 275 pp. 16 Illus. 1892. Kegan Paul, 6s.

PRIMER OF TACTICS, FORTIFICATION, Topography and Military Law, by Captain C. P. Lynden-Bell. Cr. 8vo. 102 pp. 15 Illus. 1899. Blackwood, 3s.

PROBLEMS IN APPLIED TACTICS, with Solutions, by J. Bürde. Demy 8vo. 3rd ed. 1899. Stanford, 5s.

SUMMARY OF TACTICS FOR Military Candidates, by S. Moores. 4th ed. 1903. W. H. Barrell, Portsmouth, 6s.

TACTICAL OPERATIONS FOR FIELD Officers, by Lieut.-Colonel W. Shaw. Cr. 8vo. 356 pp. 1902. Paul, 7s. 6d.

Strategy, Tactics, *continued.*

TACTICS: AS APPLIED TO SCHEMES, by Major J. Sherston. Demy 8vo. 204 pp. 1 Plate. 1902. Thacker, 10s. 6d.

TACTICS FOR BEGINNERS, by Captain C. M. de Gruyther. Cr. 8vo. 287 pp. 16 Plates. 1899. Gale & Polden, 6s.

TACTICS OF THE FIELD, by A. von Schell; trans. by Lieut.-Colonel A. E. Turner. 1900. Eyre & Spottiswoode, 1s.

TWENTY-FOUR HOURS OF MOLTKE'S Strategy, trans. from F. Hoenig. Royal 8vo. 12 Maps. Dulau, 5s.

Transport.

MECHANICAL TRACTION IN WAR for Road Transport, by Lieut.-Col. O. Layriz; trans. by R. B. Marston. Imp. 8vo. 126 pp. 1900. Sampson Low, 5s.

TRANSPORT OF HORSES BY SEA, by E. Martin. Thacker, 2s. 6d.

TRANSPORT, by W. H. Allen. Fcp. 8vo. 116 pp. 1899. Thacker, 2s. 6d.

SECTION 43.

MINING, QUARRYING.

General.

BRITISH MINING: HISTORY, DEVELOPMENT and Prospects of Metalliferous Mining in the United Kingdom, by R. Hunt. Super royal 8vo. 2nd ed. 950 pp. 230 Illus. Lockwood, 42s.

BLASTING AND THE USE OF EXPLOSIVES, by O. Guttman. Large 8vo. 180 pp. 136 Illus. 1892. Griffin, 10s. 6d.

BLASTING OF ROCK IN MINES, Quarries, Tunnels, etc., by A. W. Daw and Z. W. Daw. Demy 8vo. 274 pp. 90 Illus. 1898. Spon, 15s.

DEEP-LEVEL MINES OF THE RAND and their Future Development, by G. A. Denny. Super royal 8vo. 182 pp. Illus. 1902. Lockwood, 25s.

ECONOMIC MINING, for Miner, Metallurgist and Merchant, by C. W. Lock. Demy 8vo. 668 pp. Illus. 1895. Spon, 21s.

ELEMENTARY TREATISE ON THE Getting of Minerals, by A. Lupton. Large cr. 8vo. 3rd ed. 547 pp. 596 Illus. 23 Tables. 1899. Longmans, 9s.

ELEMENTS OF MINING AND QUARRYING, by Sir C. le Neve Foster. Cr. 8vo 340 pp. 1904. Griffin, 7s. 6d.

GLOSSARY OF MINING TERMS, with Geological Survey, Map, Signs, by C. C. Longridge. Obl. 12mo. 98 pp. 15 Illus. 1897. *Mining Journal*, 2s. 6d.

GUIDE TO MINING EXAMINATIONS, with Answers to Questions. Demy 8vo. Part I. Mathematics. 72 pp. 1894. 1s. 6d. paper. Part II. Geology and Prospecting. 61 pp. 1894. 1s. 6d. paper. Chapman & Hall.

GUIDE TO MINING LAWS OF THE World, by O. Walmesley. Royal 8vo. 2nd ed. 1897. Eyre & Spottiswoode, 5s.

HANDBOOK FOR MINING STUDENTS and Colliery Managers. 2 vols. Vol. I. Geology, Surveying, Ventilation, Winding, etc. Demy 8vo. 328 pp. Vol. II. Pumps, Mining Dictionary. Demy 8vo. 315 pp. T. Wall & Sons, Wigan, 4s. each.

LAW OF RATING OF MINES AND Quarries, by A. Brown. Demy 8vo. 62 pp. Butterworth, 5s.

LECTURES ON MINING, trans. from French of J. Callon. 3 vols. Vol. I. Royal 8vo. With 4to. Atlas. 26s. Vol. II. With Atlas. 36s. Vol. III. With Atlas. 18s. Dulau.

METALLIFEROUS MINERALS AND Mining, by D. C. Davies. Large cr. 8vo. 6th ed. 526 pp. 1901. Lockwood, 12s. 6d.

MINE ACCOUNTS AND MINING Book-keeping, by J. G. Lawn; ed. by Le Neve Foster. Large 8vo. 2nd ed. 148 pp. 1901. Griffin, 10s. 6d.

MINE FOREMAN'S HANDBOOK, by R. Mauchline. 337 pp. 14 Illus. 1893. Baird, Philadelphia, $3.75.

MINER'S AND PROSPECTOR'S Pocket Guide: Mineral Ores and Metals of Australia, by T. R. Suttie. Square 16mo. Spon, 2s.

MINER'S ARITHMETIC AND MENSURATION for Home Office Examinations, by H. Davies. Cr. 8vo. 316 pp. 1898. Chapman, 4s.

MINER'S HANDBOOK, for Students, by J. Milne. Fcp. 8vo. 2nd ed. Lockwood, 7s. 6d.

MINER'S POCKET BOOK, by C. G. W. Loch. 12mo. 4th ed. 1901. Spon, 10s. 6d.

MINING AND MINING ARITHMETIC, for Students, by W. Tate. Demy 8vo. 156 pp. T. Wall & Sons, Wigan, 2s. 6d.

MINING CALCULATIONS, for Students Preparing for Examinations for Colliery Manager's Certificate, by T. A. O'Donahue. 12mo. 220 pp. 1901. Lockwood, 3s. 6d.

MINING ENGINEER'S REPORT Book, by E. R. Field. 16mo. 40 pp. and blanks. 1900. Griffin, 3s. 6d.

MINING MANUAL (Companies), by W. R. Skinner. Demy 8vo. 1500 pp. Annual. Skinner, 21s.

MINING ROYALTIES AND THEIR Effect on the Iron and Coal Trades, by W. R. Sorley. 8vo. 40 pp. 1889. Frowde, 1s. 6d. boards.

NEW LANDS: THEIR RESOURCES and Prospective Advantage, by H. R. Mill. Cr. 8vo. 280 pp. 10 Maps. 1900. Griffin, 5s.

POCKET BOOK FOR MINERS AND Metallurgists, by F. D. Powers. Fcp. 8vo. 2nd ed. 350 pp. 1899. Lockwood, 9s.

POCKET DICTIONARY OF MINING Terms, by P. Milford. 16mo. 3rd ed. 60 pp. 1898. E. Wilson, 1s. limp.

PRACTICAL GUIDE FOR PROSPECTORS, Explorers and Miners, by C. W. Moore. Demy 8vo. 284 pp. 145 Illus. 1 Coloured Plate. 1893. Kegan Paul, 12s.

PRACTICAL HANDBOOK FOR THE Working Miner, Prospector and Mining Investor, by J. A. Miller. Cr. 8vo. Spon, 7s. 6d.

PRACTICAL MINING: FIELD Manual for Mining Engineers, by J. G. Murphy. 16mo. Van Nostrand, N.Y., $1.

PRINCIPLES OF METAL MINING, for Elementary Students, by J. H. Collins. Gl. 8vo. 151 pp. 101 Illus. Collins, 1s. 6d.

PROSPECTING FOR MINERALS, by S. H. Cox. Cr. 8vo. 3rd ed. 252 pp. 41 Illus. 1903. Griffin, 5s.

PROSPECTING, LOCATING AND Valuing Mines, for Prospectors, Investors, and Mining Men, by R. H. Stretch. Large cr. 8vo. 382 pp. 1899. Scientific Pub. Co., 8s. 6d.

PROSPECTOR'S FIELD BOOK AND Guide, by H. S. Osborn. Cr. 8vo. 6th ed. 316 pp. 1904. Baird, Philadelphia, $1.50.

PROSPECTOR'S HANDBOOK, by J. W. Anderson, M.A. 12mo. 8th ed. 188 pp. 1900. Lockwood, 3s. 6d.

QUARTZ OPERATOR'S HANDBOOK, by P. M. Randall. 12mo. Van Nostrand, N.Y., $2.

ROCK BLASTING, by G. G. André. Large cr. 8vo. 194 pp. 12 Plates. 1878. Spon, 5s.

SLATE AND SLATE QUARRYING, by D. C. Davies. 3rd ed. 186 pp. Lockwood, 3s.

TEXTBOOK OF ORE AND STONE MINING, by Sir C. le Neve Foster. 5th ed. 763 pp. 717 Illus. 1 Plate. 1904. Griffin, 34s.

TUNNELLING, EXPLOSIVE COMPOUNDS and Rock Drills, by H. S. Drinker (U.S.A.). 4to. 3rd ed. 1220 pp. 850 Illus. 1893. Chapman, £5 5s.

UNDERGROUND TREASURES: How and Where to Find Them; Useful Minerals of U.S.A., by J. Orton. 16mo. 1901. Baird, Philadelphia, $1.50.

UNIVERSAL MINING CODE, for Mining Companies, Mining Engineers, etc., by J. Stevens and R. S. Corbett. Palmer, Howe, Manchester, 42s.

(See also **Mineral Industry** below.)

Coal Mining.

ANNALS OF COAL MINING AND the Coal Trade, by R. L. Galloway. Demy 8vo. 545 pp. *Colliery Guardian*, 16s.

ANTHRACITE COAL INDUSTRY, by P. Roberts, Ph.D. (U.S.A.). 8vo. 1901. Macmillan, 15s.

CHEMISTRY OF COKE, trans. from German of O. Simmersbach by W. C. Anderson, M.A., B.Sc. Hodge & Co., Glasgow, 5s.

Coal Mining, *continued.*

COAL AND IRON INDUSTRIES OF the United Kingdom, by R. Meade. Cr. 8vo. 876 pp. Maps. 1882. Lockwood, 28s.

COAL AND METAL MINERS' POCKET-BOOK. 7th ed. 1903. *Mines and Minerals,* Scranton, U.S.A. $3.

COAL FIELDS OF SCOTLAND, by R. W. Dron. Royal 8vo. 376 pp. 1902. Blackie, 15s.

COAL, IRON, STONE AND OTHER Heavy Trades' Calculator: Cart-loads and Railway Charges, by M. B. Cotsworth. McCorquodale, 3s. 6d.

COAL MINING DIAGRAMS, for Schools, 36 in. × 26 in. Bacon, 4s. 6d. each.

COAL MINES ACT, 1887, with Amendments, 1894-1900. 8vo. Eyre & Spottiswoode, 1s.

COAL MINES REGULATION ACT, 1887, by G. G. Kennedy and J. S. Sanders. Demy 12mo. 1888. Butterworth, 3s. 6d.

COAL MINES REGULATION ACTS, 1887-96, by B. F. Williams and G. Pitt Lewis. Demy 8vo. 195 pp. 1896. Butterworth, 10s. 6d.

COAL PITS AND PITMEN: HISTORY of Coal Trade and Legislation, by R. N. Boyd. Cr. 8vo. 2nd ed. 370 pp. Illus. 1895. Whittaker, 7s. 6d.

COAL TRADE: PRODUCTION, Prices, Transportation, etc., by F. E. Saward. 8vo. 116 pp. Annual. *Coal Trade Journal,* N.Y., $1.

COLLIERY HANDBOOK FOR YORKSHIRE, Derbyshire, Nottinghamshire, Leicestershire and Warwickshire, by F. W. Hardwick, M.A. Pawson & Brailsford, Sheffield, 5s.

COLLIERY MANAGER'S CALCULATOR, by W. Fairley. Cr. 8vo. 5th ed. 210 pp. 1890. *Colliery Guardian,* 4s.

COLLIERY MANAGER'S HANDBOOK, for Managers and Students, by C. Pamely. Med. 8vo. 4th ed. 940 pp. 700 Illus. 1898. Lockwood, 25s.

COLLIERY SINKING THROUGH Watered Strata, by J. ny 8vo. 48 pp. T. , *Wigan,* 1s.

COLLIERY WORKING AND MANAGEMENT, by H. F. Bulman and R. A. S. Redmayne. Med. 8vo. 330 pp. Illus. 28 Plates. 1896. Lockwood, 15s.

CONVERSATION ON MINES BETWEEN a Father and Son: Questions and Answers, by W. Hopton. Cr. 8vo. 9th ed. 355 pp. Illus. 1891. Simpkin, Marshall, 4s. 6d.

ELEMENTARY COAL MINING, for Students, by G. L. Kerr. Cr. 8vo. 230 pp. 200 Illus. 1902. Griffin, 3s. 6d.

ELEMENTARY TREATISE ON COAL and Coal Mining, by Sir W. W. Smyth, M.A. Cr. 8vo. 8th ed. 352 pp. 1900. Lockwood, 3s. 6d.

EXPEDITIOUS COAL RECKONER, by J. Johnson, etc. 12mo. 3rd ed. 1901. Simpkin, 2s.

GLOSSARY OF TERMS USED IN Coal Mining, by W. S. Gresley. 296 pp. 136 Illus. 1883. Spon, 2s. 6d.

GLOSSARY OF TERMS USED IN THE Coal Trade of Northumberland and Durham, by G. C. Greenwell. Royal 8vo. 3rd ed. 92 pp. 1888. *Colliery Guardian,* 5s. paper.

LAW OF COLLIERS AND COLLIERIES, by J. C. Fowler. Demy 12mo. 4th ed. 1884. Clowes, 7s. 6d.

MANAGEMENT OF FIERY MINES, by A. D. Mitton. Cr. 8vo. 56 pp. Whittaker, 1s.

MANUAL OF THE COAL MINES Regulation Act, 1887, by J. C. Chisholm. Demy 8vo. 1888. Clowes, 7s. 6d.

MINER'S GUIDE TO COAL MINES Regulation Acts, by L. A. A. Jones and H. H. L. Bellot. Cr. 8vo. 270 pp. 1904. Methuen, 2s. 6d.

OUR COAL RESOURCES AT THE Close of the 19th Century, by E. Hull, LL.D. Demy 8vo. 157 pp. 1897. Spon, 6s.

PLANS AND SKETCHES OF PRACTICAL Ventilation and Coal Working in Mines, for Candidates for Colliery Managers' Certificates, by W. Tate. Demy 4to. 2nd ed. 96 pp. T. Wall & Sons, Wigan, 4s.

PRACTICAL COAL MINING, by G. L. Kerr. Large cr. 8vo. 3rd ed.

462 pp. 520 Illus. 1904. Griffin, 12s. 6d.

PRACTICAL TREATISE ON COAL Mining, by G. G. André. 2 vols. Royal 4to. 82 Plates. Spon, 72s.

PRINCIPLES OF COAL MINING, for Elementary Students, by J. H. Collins. Globe 8vo. 2nd ed. 151 pp. 141 Illus. Collins, 1s. 6d.

PRINCIPLES OF COLLIERY VENTILATION, by A. Bagot. Cr. 8vo. 2nd ed. 150 pp. Illus. 1882. Kegan Paul, 5s.

SPECIAL REPORT ON COAL, SHOWING its Distribution and Costs: Delivered to Various Points in New York, etc., by S. H. Sweet. 8vo. Van Nostrand, N.Y., $6.

TEXT-BOOK OF COAL MINING, by H. W. Hughes. Large 8vo. 5th ed. 527 pp. 670 Illus. 3 Plates. 1904. Griffin, 24s.

TWO HUNDRED EXAMINATION Questions on Mines and Mining, by W. Hopton. Cr. 8vo. 93 pp. 1892. Abel Heywood, Manchester, 1s. 6d. paper.

Drainage, Ventilation, Accidents.

ACCIDENTS IN MINES: THEIR Causes and Prevention, by A. Bagot. Cr. 8vo. 178 pp. Illus. 1871. Kegan Paul, 6s.

COLLIERY VENTILATION, by J. S. James. Cr. 8vo. 116 pp. 21 Illus. 1894. *Colliery Guardian*, 2s.

MINE DRAINAGE, by S. Michell. Royal 8vo. 2nd ed. 387 pp. 250 Illus. 1899. Lockwood, 25s.

MINE DRAINAGE, PUMPS, ETC., by H. C. Behr. 8vo. Illus. Spon, 7s. 6d.

MINE VENTILATION, by D. Murgue; trans. by A. L. Steavenson. Large cr. 8vo. 81 pp. 11 Illus. 1883. Spon, 5s.

PRACTICAL AND THEORETICAL Mine Ventilation, by E. B. Wilson (U.S.A.). Cr. 8vo. 5th ed. 141 pp. 1893. Chapman, 5s. 6d.

RECOVERY WORK AFTER PIT Fires, by R. Lamprecht; trans. from German. Demy 8vo. 175 pp. 1901. Scott, Greenwood, 10s. 6d.

THEORY AND PRACTICE OF MINE Ventilation, by W. Tate. Demy 8vo. 52 *pp.* Whittaker, 6d.

VENTILATION IN MINES, trans. from German of R. Wabner. Royal 8vo. 240 pp. 22 Illus. 30 Folding Plates. 1903. Scott, Greenwood, 10s. 6d.

VENTILATION OF MINES, by J. T. Blard (U.S.A.). 12mo. Chapman, 10s. 6d.

(**Explosives.** See section 42.)

Hydraulic Mining.

HYDRAULIC AND PLACER MINING, by E. B. Wilson (U.S.A.). 12mo. 234 pp. Illus. 1898. Chapman, 8s. 6d.

HYDRAULIC MINING, by C. C. Longridge. Part I. Ditches, Tunnels. Demy 8vo. 3rd ed. 49 pp. Illus. 1901. 3s. 6d. Part II. Flumes, Pipes. Demy 8vo. 63 pp. Illus. 1900. 4s. limp. Part III. 8vo. 3rd ed. 132 pp. 1902. *Mining Journal*, 5s.

MANUAL OF HYDRAULIC MINING, for the Practical Miner, by T. F. Van Wagenen. 16mo. 2nd ed. 95 pp. 1897. Van Nostrand, N.Y., $1.

PRACTICAL TREATISE ON HYDRAULIC Mining in California, by A. J. Bowie (U.S.A.). Royal 8vo. 9th ed. 315 pp. Illus. Spon, 21s.

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DICTIONARY OF MANUFACTURES, Mining Machinery and Industrial Arts, by G. Dodd. 12mo. Van Nostrand, N.Y., $1.50.

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MINING AND ORE DRESSING Machinery, by C. G. W. Lock. Super Royal 4to. Illus. 1894. Spon, 25s.

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LAW OF MINES AND MINERALS, by W. Bainbridge. Royal 8vo. 5th ed. 948 pp. 1900. Butterworth, 42s.

LAW OF MINES, QUARRIES AND Minerals, by R. F. MacSwinney. Royal 8vo. 2nd ed. 1897. Sweet & Maxwell, 40s.

MINERAL INDUSTRY: Its Statistics, Technology and Trade in U.S.A. to End of 1901, ed. by J. Struthers, Ph.D. Vol. X. Demy 8vo. 884 pp. 1902. *Engineering and Mining Journal*, 21s.

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MINERALOGY (Rutley's). Cr. 8vo. 12th ed. 240 pp. 115 Illus. 1900. Murby, 2s.

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ADVICE TO PUPILS AND TEACHERS of the Violin, by B. Althauer. Cr. 8vo. 166 pp. 1903. *Strad.*, 2s. 6d.

CATECHISM OF VIOLIN AND VIOLA Playing, trans. from Prof. C. Schroeder. Cr. 8vo. 2nd ed. 140 pp. Illus. Augener, 2s. 6d.

CATECHISM OF VIOLONCELLO PLAYING, by Prof. C. Schroeder. Cr. 8vo. 2nd ed. 120 pp. Augener, 2s. 6d. limp.

DOUBLE-BASS (Music Primer), by A. C. White. Novello, 3s. 6d.

MODERN SCHOOL FOR THE VIOLIN, by A. Wilhelmj and J. Brown. Vol. I. Technical Exercises, 2s. Vol. II. Technical Practice, 2s. Vol. III. Ditto, 3s. Novello.

NOTES ON THE CONSTRUCTION OF the Violin, by W. B. Coventry. 1902. Dulau, 2s. 6d.

PRACTICAL VIOLIN SCHOOL, for Home Students, by J. M. Fleming. Demy 4to. 160 pp. Musical illus. 1889. Upcott Gill, 9s. 6d.

THE VIOLONCELLO (Music Primer), by J. de Swert. Novello, 2s. 6d.

THE VIOLIN, by B. Tours. Sm. 4to. 106 pp. Illus. Novello, 2s. 6d.

VIOLIN MAKING: AS IT WAS AND as it is, by E. Heron-Allan. Demy 8vo. 2nd ed. 362 pp. Illus. Plates. 1885. Ward, Lock, 10s. 6d.

VIOLIN MAKING, by W. H. Mayson. Cr. 8vo. 108 pp. 31 Illus. 1902. *Strad.*, 5s.

VIOLIN SCHOOL, by F. David. Novello, 18s.

(**Voice Production.** See section 20.)

SECTION 46.

NAUTICAL, NAVIGATION.

Boat Building.

BOAT BUILDING FOR AMATEURS, by A. Neison. Cr. 8vo. 2nd ed. 108 pp. 70 Illus. 1901. Upcott Gill, 2s. 6d.

BUILDING MODEL BOATS, ed. by Hasluck. Cr. 8vo. 160 pp. 168 Illus. 1900. Cassell, 1s.

CANOE AND BOAT BUILDING, for Amateurs, by W. P. Stephens (U.S.A.). Cr. 8vo. 8th ed. 264 pp. 50 Plates of Working Drawings. Spon, 9s.

PRACTICAL BOAT BUILDING AND Sailing, for Amateurs, by A. Neison, D. Kemp and G. C. Davies. Cr. 8vo. 2nd ed. 198 pp. 70 Illus. Plates. Upcott Gill, 7s. 6d.

Boat and Canoe Sailing.

CANOE HANDLING AND SAILING, by C. Bowyer Vaux. 168 pp. Illus. Forest & Stream Pub. Co., N.Y., $1.

PRACTICAL BOAT SAILING; Management of Small Boats and Yachts, by D. Frazer (U.S.A.). 12mo. 142 pp. Illus. Kegan Paul, 4s. 6d.

Board of Trade Examinations.

CONCISE GUIDE TO BOARD OF Trade Examinations, for Masters and Mates of Foreign-going Vessels, by A. E. Nicholls. Demy 8vo. 362 pp. 1902. Simpkin, 7s. 6d.

DEFINITIONS, with Diagrams for Board of Trade Examinations and New Regulations for Preventing Collisions at Sea, by J. Tait. Cr. 8vo. 2nd ed. 1903. Simpkin, 1s.

EXTRA-MASTERS, Masters and Mates Exams, by C. Morris. 2nd ed. 1903. Houlston, 10s.

GUIDE-BOOK TO THE BOARD OF Trade Examinations, for Mates and Masters of Foreign-going and Home-trade Sailing and Steamships, by Capt. A. Wood. 500 pp. 90 Illus. W. Kidd, Dundee, 7s. 6d.

NEW GUIDE TO BOARD OF TRADE Examinations of Masters and Mates for Certificates of Competency, Reed's. Cr. 8vo. 14th ed. 1903. Simpkin, 6s.

REED'S GUIDE TO BOARD OF TRADE Examinations, by W. H. Thorn. 8vo. 4th ed. 1902. Simpkin, 18s.

Cookery, Ship's.

SHIP'S COOK AND STEWARD'S Guide: Hints on Management and 250 Recipes by J. B. Wilson. Demy 8vo. 70 pp. 1899. Potter, 1s. paper.

Deviation of the Compass.

DEVIATIONS OF THE COMPASS: Admiralty Manual. 7th ed. 1901. J. D. Potter, 3s.

ELEMENTARY MANUAL FOR DEVIATION of the Compass in Iron Ships, by Captain F. J. Evans, R.N. Royal 8vo. 150 pp. 46 Illus. 4 Charts. 1903. Potter, 6s. 6d.

PRACTICAL COMPASS ADJUSTMENT on Iron Composite and Wooden Vessels, by W. J. Smith. Demy 8vo. 62 pp. 1903. Seattle Nautical College (U.S.A.). $2.

PRACTICAL INFORMATION ON THE Deviation of the Compass, by J. T. Towson. Demy 8vo. 173 pp. Diagrams. 1899. Potter, 4s.

TREATISE ON ELECTRO-MAGNETIC Phenomena and on the Compass and its Deviations Aboard Ship, by Commander T. A. Lyons (U.S.A.). Vol. I. 8vo. 556 pp. 385 Illus. 1901. Chapman, 25s. 6d.

Dictionaries, Glossaries.

DICTIONARY OF SEA TERMS, ETC.: English - French, by W. Pierre. 18mo. 1895. Dulau, 5s.

GLOSSARY OF NAVAL TERMS IN Hindustani, by J. C. Mascarenhas, City of London College.

NAVAL DICTIONARY: ENGLISH, Dutch, French and German, by D. J. Boom. Cr. 8vo. 714 pp. Potter, 10s.

SEA TERMS, PHRASES AND WORDS Dictionary: English - French, French - English, by W. Pirrie. Fcp. 8vo. 1895. Lockwood, 5s.

TECHNICAL MARINE DICTIONARY in German, Italian, French and English, by V. E. Dabovich. Vol. I. 8vo. 1248 pp. Dulau, 33s.

(**Flags.** See **Signalling**, below.)

(**Docks and Harbours.** See section 16.)

Horses on Ships.

HORSES ON BOARD SHIP, by M. H. Hayes. Cr. 8vo. 271 pp. 24 Illus. 1902. Hurst & Blackett, 3s. 6d.

Latitude and Longitude.

CHRONOMETER TABLES, or, Hour Angles for Selected Altitudes between Latitudes 0° and 50°, by P. L. H. Davis. Small 4to. 205 pp. 1902. J. D. Potter, 10s. 6d.

HOUR ANGLES OF THE SUN, MOON and Stars, for Latitude and Declination, 0°-80° and Altitude 5°-64°. Royal 8vo. 31 pp. 7 Illus. 1891. Potter, 3s. 6d. boards.

LATITUDE AND LONGITUDE: How to Find Them, by W. J. Millar. Cr. 8vo. 2nd ed. 64 pp. 1903. Griffin, 5s.

NOTES ON THE MANAGEMENT OF Chronometers and the Measurement of Meridian Distances, by Rear-Admiral C. F. A. Shadwell, C.B. Royal 8vo. 228 pp. Illus. 1861. Potter, 4s. 6d.

ON FINDING THE LATITUDE AND Longitude in Cloudy Weather and at Other Times, by A. C. Johnson, R.N. Royal 8vo. 26th ed. 57 pp. 1903. Potter, 5s.

SUN'S TRUE BEARING OR AZIMUTH Tables, by Captain J. E. and P. L. H. Davis. Royal 8vo. 256 pp. 1900. J. D. Potter, 10s. 6d.

(**Marine Engineering.** Section 21.)

Marine Insurance.

DIGEST OF LAW RELATING TO Marine Insurance, by M. D. Chalmers and D. Owen. Demy 8vo. Clowes, 10s.

MARINE INSURANCE, by W. Gow. Gl. 8vo. 3rd ed. 400 pp. 1903. Macmillan, 5s.

(See also p. 133.)

Marine Law.

HANDBOOK ON LAW AND PRACTICE Relating to Registration of British Ships, by F. W. Gardner. Demy 8vo. 2nd ed. 1900. Spottiswoode & Co., 5s.

LEGAL DUTIES OF SHIPMASTERS, by B. W. Ginsburg. Cr. 8vo. 230 pp. 1898. Griffin, 4s. 6d.

Marine Law, *continued.*

MARITIME LAW: NARRATIVE OF a Ship from and including the Agreement to Build her until she becomes a Total Loss, by A. Saunders. E. Wilson, 21s.

MERCANTILE HANDBOOK OF THE Liabilities of Merchant, Shipowner and Underwriter on Shipments by General Vessels, by A. Wilson. Royal 12mo. 124 pp. 1883. Stevens & Sons, 6s.

MERCHANT SHIPPING ACTS, 1894-7, with Notes, etc., by J. D. White, M.A., LL.M. Demy 8vo. 2nd ed. 1897. Eyre & Spottiswoode, 7s. 6d.

TREATISE ON THE LAW RELATING to Carriage of Goods by Sea, by T. G. Carver. Royal 8vo. 3rd ed. 1900. Clowes, 36s.

Medical Guides.

MEDICAL AND SURGICAL HELP for Shipmasters and Officers, by W. J. Smith. Cr. 8vo. 2nd ed. 82 Illus. Coloured Plates. 1900. Griffin, 6s.

SHIP CAPTAIN'S MEDICAL GUIDE, by H. Leach. Cr. 8vo. 13th ed. 206 pp. 1901. Simpkin, 2s.

Nautical Astronomy.

NAUTICAL ASTRONOMY MADE EASY, by A. C. Johnson, R.N. Royal 8vo. 32 pp. 1900. J. D. Potter, 3s. boards.

NAUTICAL ASTRONOMY, for Elementary Students, by H. Evers, LL.D. Gl. 8vo. 144 pp. Illus. 1873. Collins, 1s.

NAUTICAL TABLES REQUISITE FOR Navigation and Nautical Astronomy, by Lieut. H. Raper, R.N. Royal 8vo. 19th ed. 925 pp. 1903. J. D. Potter, 10s. 6d.

STAR'S TRUE BEARING OR AZIMUTH Tables, by P. L. H. Davis. Royal 8vo. 267 pp. 1902. J. D. Potter, 10s. 6d.

Navigation.

COMPLETE EPITOME OF PRACTICAL Navigation, by J. W. Norrie. Royal 8vo. 537 pp. Illus. 1900. Norrie & Wilson, 16s.

GUIDE IN NAVIGATION AND NAUTICAL Astronomy to Board of Trade Examinations, for Mates and Masters of Foreign-going Steam and Sailing Ships, by J. Tait. Cr. 8vo. 256 pp. 1901. Simpkin, 7s. 6d.

LECTURES ON ELEMENTARY NAVIGATION, by Rev. J. B. Harbord, M.A. Cr. 8vo. 129 pp. Illus. 1895. J. D. Potter, 7s. 6d.

MODERN NAVIGATION: TEXTBOOK of Navigation and Nautical Astronomy, by W. Hall. Cr. 8vo. 402 pp. 1904. Clive, 6s. 6d.

NAUTICAL TABLES, for British Seamen, by Rev. J. Inman, D.D. Royal 8vo. 562 pp. 1900. Kegan Paul, 16s.

NAVIGATION, for Students, by J. Don, M.A. Fcp. 8vo. 168 pp. 72 Illus. 1893. Chambers, 2s.

NAVIGATION AND NAUTICAL ASTRONOMY, by W. R. Martin. Royal 8vo. 3rd ed. 429 pp. 187 Illus. 7 Plates. 1899. Longmans, 18s.

NAVIGATION AND NAUTICAL ASTRONOMY, by J. H. C. Coffin. 12mo. 52 Illus. Van Nostrand, N.Y., $3.50.

NAVIGATION AND NAUTICAL ASTRONOMY, by F. C. Stebbing. 8vo. 352 pp. 1903. Macmillan, 8s. 6d.

NAVIGATION, Practical and Theoretical, by D. Wilson-Barker and W. Allingham. Cr. 8vo. 154 pp. 61 Illus. 1896. Griffin, 3s. 6d.

NAVIGATION SIMPLIFIED, by a System of Teaching on First Principles, by Capt. P. Thompson. Royal 8vo. 353 pp. Illus. 1900. Potter, 12s.

PRACTICAL NAVIGATION, by J. Greenwood and W. H. Rosser. 12mo. Illus. Lockwood, 7s.

PRACTICE OF NAVIGATION AND Nautical Astronomy, by Lieut. H. Raper, R.N. 19th ed. 934 pp. Illus. 1903. J. D. Potter, 16s.

SELF-INSTRUCTOR IN NAVIGATION, Nautical Astronomy, by W. H. Rosser. Royal 8vo. 626 pp. Illus. 1898. Norrie & Wilson, 10s. 6d.

SELF-INSTRUCTION IN THE PRACTICE and Theory of Navigation, by the Earl of Dunraven. 8vo. 2 vols. Vol. I. 354 pp. 65 Illus. 1900. Vol. II. 390 pp. 139 Illus. 1900. Macmillan, 21s.

SIMPLE ELEMENTS OF NAVIGATION, by L. Young (U.S.A.). 2nd ed. 244 pp. 1894. Chapman, 10s. 6d.

TEXT-BOOK ON NAVIGATION AND Nautical Astronomy, for Students and Officers, by J. Gill. Med. 8vo. 380 pp. 212 Illus. 1898. Longmans, 10s. 6d.

THEORY AND PRACTICE OF NAVIGATION, for Elementary Students, by W. H. Barham. Gl. 8vo. 160 pp. 60 Illus. 1893. Collins, 1s. 6d.

TREATISE ON NAVIGATION, for Students, with Charts and Diagrams, by J. Merrifield, LL.D. Cr. 8vo. 305 pp. 41 Illus. 1900. Longmans, 5s.

WRINKLES IN PRACTICAL NAVIGATION, by S. T. S. Lecky. Demy 8vo. 14th ed. 842 pp. 120 Illus. 1903. Philip, 25s.

RULES OF THE ROAD AT SEA, by H. S. Moore. Royal 8vo. 3rd ed. 418 pp. 1900. Potter, 7s. 6d.

(**Navy.** See section 46A.)

Pilots.

CONCISE NAVIGATING DIRECTIONS for the River Thames, from London Bridge to S. Foreland, with Supplement to December, 1901, by S. Penney. 106 pp. 19 Charts. 1898. J. D. Potter, 7s. 6d.

PILOT'S HANDBOOK FOR THE English Channel, by Staff-Commander J. W. King, R.N. Royal 8vo. 14th ed. 220 pp. 22 Plates. 1902. Potter, 7s. 6d.

Sails and Rigging.

ART AND PRACTICE OF SAILMAKING, by S. B. Sadler. Sm. 4to. Illus. Plates. Lockwood, 12s. 6d.

RIGGER'S GUIDE AND SEAMAN'S Assistant, by C. Bushell. Sm. 8vo. 7th ed. 254 pp. Illus. 1893. Simpkin, 3s.

SAILOR'S BOOK OF KNOTS, BENDS, Splices, etc., in Colours, with Tables of Strengths of Ropes, Wire Rigging, etc., by Capt. Jutsum. Cr. 8vo. 1903. Simpkin, 2s.

SAILS AND SAILMAKING, by R. Kipping. Lockwood, 2s. 6d.

Salvage.

LAW OF SALVAGE, TOWAGE AND Pilotage, by H. Newson. Demy 8vo. 1886. Clowes, 15s.

SALVAGE OPERATIONS; Floating of H.M. Battleship *Howe*, by Rear-Admiral G. T. H. Boyes. Royal 8vo. 70 pp. 23 Plans and Diagrams. 1900. Potter, 5s.

Seamanship.

A B C MARINER'S GUIDE, by R. T. Stevens. Large cr. 8vo. 2nd ed. 388 pp. Leadenhall Press, 7s. 6d.

KNOW YOUR OWN SHIP, by T. Walton. Cr. 8vo. 6th ed. 335 pp. 142 Illus. 1901. Griffin, 7s. 6d.

MANUAL OF ELEMENTARY SEAMANSHIP, by D. W. Barker. Cr. 8vo. 3rd ed. 208 pp. 1902. Griffin, 6s.

MODERN SEAMANSHIP, by A. M. Knight. Royal 8vo. 2nd ed. 428 pp. 136 Plates. 1902. Van Nostrand, N.Y., $6.

NAUTICAL DIARY AND DAY'S WORK Book. 4to. Annual. Simpkin, 2s. 6d.

PRACTICAL MECHANICS, for Sailors, by T. Mackenzie. Cr. 8vo. 2nd ed. 175 pp. 54 Illus. 1901. Griffin, 3s. 6d.

SAILORS' POCKET BOOK, by Sir F. Bedford. Cr. 8vo. 8th ed. 686 pp. Illus. 1898. Simpkin, 8s. 6d.

SEAMANSHIP, by Capt. Alston, enlarged by Capt. T. P. Walker. Cr. 8vo. 4th ed. 606 pp. 1902. Simpkin, 10s. 6d.

SEAMANSHIP, by Sir G. S. Nares. Demy 8vo. 7th ed. 334 pp. 313 Illus. 10 Coloured Plates. 1897 Simpkin, 21s.

TEXT-BOOK OF SEAMANSHIP, for U.S. Naval Academy, by Commander S. B. Luce. 8vo. Van Nostrand, N.Y., $10.

THE SEA: for Midshipmen, Apprentices, Engineers and Seamen in British Mercantile Service. Cr. 8vo. 88 pp. 1902. Spottiswoode & Co., 1s.

YOUNG SEAMAN'S MANUAL AND Rigger's Guide, by Capt. Burney, R.N., C.B. Cr. 8vo. 13th ed. 589 pp. 200 Illus. 16 Sheets of Signals. 1901. Kegan Paul, 7s. 6d.

Shipbuilding.

MODERN PRACTICE OF SHIPBUILDING in Iron and Steel, for Advanced Students, by S. J. P. Thearle. 2 vols. Vol. I. Large cr. 8vo. 241 pp. 31 Illus. 1886. 5s. Vol. II. Plates. 10s. Collins.

PRACTICAL SHIPBUILDING, by A. C. Holmes. 2 vols. Royal 8vo. Vol I. 627 pp. Vol. II. Plates. 1904. Longmans, 48s.

RESISTANCE AND POWER OF Steamships, by W. H. Atherton, M.Sc., and A. L. Mellanby, M.Sc. Cr. 8vo. 208 pp. 1903. Technical Pub. Co., Manchester, 5s.

SHIPBUILDING INDUSTRY IN Germany, by G. L. Felskowski. 4to. 200 pp. Plates. 1903. Lockwood, 10s. 6d.

STABILITY OF SHIPS, by Sir E. J. Reed. Royal 8vo. 370 pp. 224 Illus. 1885. Griffin, 25s.

STEEL SHIPS: THEIR CONSTRUCTION and Maintenance, by T. Walton. Large 8vo. 290 pp. 145 Illus. 5 Plates. 35 Diagrams. 1901. Griffin, 18s.

TABLES FOR CONSTRUCTING SHIP'S Lines, by A. Hogg. 8vo. 2nd ed. Spon, 7s.

(**Marine Engineering.** Section 21.)

(**Naval Architecture.** Section 46A.)

Signalling, Flags.

BRITISH AND COLONIAL FLAGS, also Flags of All Nations. 8vo. 1902. Simpkin, 1s.

BRITISH CODE LIST, FOR USE OF Ships at Sea and for Signal Stations. Royal 8vo. Annual. Spottiswoode & Co., 5s.

FLAGS OF THE WORLD: THEIR History, Blazonry and Associations, by F. E. Hulme. Cr. 8vo. 152 pp. 26 Plates. Warne, 6s.

HOUSE FLAGS AND FUNNELS OF English and Foreign Steamship Companies and Private Firms. Obl. 8vo. 3rd ed. 1902. Simpkin, 3s. 6d.

INTERNATIONAL CODE OF SIGNALS (Nautical). Demy 4to. 2nd ed. 570 pp. 1901. Spottiswoode & Co., 1s.

NEW INTERNATIONAL CODE OF Signals, by T. L. Ainsley. 8vo. 1901. Simpkin, 1s.

OUR SHIPPING HEADLIGHTS, *Syren and Shipping*, 2s. 6d.

SHIPPING CODE: MERCHANT Shipping Act, 1894, with Notes, Forms, etc., by A. Pulling. Royal 8vo. 450 pp. 1894. Stevens & Sons, 7s. 6d.

SIGNALLING: HOW TO LEARN THE Use of New International Code as Required at Board of Trade Examinations. Cr. 8vo. 1901. Simpkin, 1s.

SIGNAL MANUAL FOR USE OF Mercantile Marine, by Captain Rugg. 16mo. 1903. Spottiswoode & Co., 1s. limp.

Storms.

LAW OF STORMS, by W. H. Rosser. Demy 8vo. 156 pp. 36 Illus. 2 Plates. 1886. Norrie & Wilson, 5s.

MARINE METEOROLOGY, for Officers of the Merchant Navy, by W. Allingham. Cr. 8vo. 182 pp. 34 Illus. 10 Plates and Maps. 1900. Griffin, 7s. 6d.

TRUE PRINCIPLE OF THE LAW OF Storms, by Captain J. Sedgwick. Royal 8vo. 8th ed. 4 Plates. 1878. J. D. Potter, 3s.

Stowage.

STOWAGE OF SHIPS AND THEIR Cargoes, with Information regarding Freights, Charter-parties, etc., by R. W. Stevens. Large cr. 8vo. 7th ed. 816 pp. Illus. 1894. Longmans, 21s.

(**Submarines.** See section 46A.)

Surveying, Nautical.

INTRODUCTION TO THE PRACTICAL and Theoretical Study of Nautical Surveying, by J. K. Laughton, M.A. Cr. 8vo. 168 pp. 35 Diagrams. 1882. Longmans, 6s.

PRACTICAL MARINE SURVEYING, by H. Phelps (U.S.A.). Demy 8vo. 213 pp. Illus. 1893. Chapman, 10s. 6d.

PRACTICAL NAUTICAL SURVEYING and the Handicraft of Navigation, by Commander T. A. Hull, R.N. Royal 8vo. 2nd ed. 66 pp. 8 Plates. 1898. Potter, 3s.

Yacht Construction.

CONSTRUCTION OF YACHTS, CRUISING, Yacht Racing Rules, Fitting Out, etc., by Sir E. Sullivan, etc. Cr. 8vo. 93 Illus. 21 Plates. Longmans, 10s. 6d.

SMALL YACHT CONSTRUCTION AND Rigging, by L. Hope. Imp. 8vo. 1903. *Yachtsman*, 12s. 6d.

SMALL YACHTS: THEIR DESIGN and Construction Exemplified by Ruling Types of Modern Practice, by C. P. Kunhardt. 4to. 470 pp. 87 Plates. Forest & Stream Pub. Co., N.Y., $10.

SUPPLEMENT TO SMALL YACHTS: Examples of Yachts Built in America and England, 1890-6, by W. P. Stephens. 4to. 104 pp. 43 Plates. Forest & Stream Pub. Co., N.Y., $4.

YACHT ARCHITECTURE, by D. Kemp. Super Royal 8vo. 3rd ed. Plates and Illus. Horace Cox, 42s.

Yachting.

HINTS TO BEGINNERS IN AMATEUR Yacht Designing, by T. E. Biddle. Demy 8vo. 19 pp. 24 Illus. 2 Plates. 1890. Norrie & Wilson, 2s. 6d. limp.

HUNT'S UNIVERSAL YACHT LIST. Large cr. 8vo. 380 pp. Illus. Annual. Norrie & Wilson, 6s.

MANUAL OF YACHT AND BOAT Sailing, by D. Kemp. Super Royal 8vo. 10th ed. 667 pp. 353 Illus. 120 Plates. 1904. Horace Cox, 25s.

NAVIGATION FOR YACHTSMEN, by V. J. English. Demy 8vo. 342 pp. Illus. and Charts. 1896. H. Cox, 15s.

STEAM YACHTS AND LAUNCHES: Their Machinery and Management, by C. P. Kunhardt. 267 pp. Forest & Stream Pub. Co., N.Y., $3.

YACHTING HINTS, TABLES AND Memoranda, by A. C. Franklin. 32mo. Spon, 1s.

YACHTSMAN'S HANDY BOOK FOR Sea Use, by W. H. Rosser. Demy 8vo. 5th ed. 140 pp. 2 Plates. 1896. Norrie & Wilson, 3s. 6d.

SECTION 46A.

NAVY.

Gunnery.

HANDBOOK ON NAVAL GUNNERY, by Lieut. C. S. Radford. 12mo. 5th ed. Van Nostrand, N.Y., $2.

NAVAL GUNNERY, by Captain H. Garbett. Cr. 8vo. 125 Illus. 360 pp. 1897. Bell, 5s.

TEXTBOOK OF ORDNANCE AND Gunnery, by W. F. Fullam and T. C. Hart. 8vo. 440 pp. 1903. U.S. Naval Institute, Annapolis, $5.

Mechanical Drawing.

MECHANICAL DRAWING FOR NAVAL Cadets at U.S. Naval Academy, by F. W. Bartlett (U.S.A.). Demy 8vo. 188 pp. 132 Illus. 1902. Chapman, 12s. 6d.

(**Nautical Books.** See section 46.)

Naval Architecture.

ADVANCED PRACTICAL NAVAL Architecture, for Students, by S. J. P. Thearle. 2 vols. Vol. I. Text. Pott 8vo. 380 pp. 39 Illus. 2s. 6d. Vol. II. Plates. 5s. Collins.

ADVANCED THEORETICAL NAVAL Architecture, for Students, by S. J. P. Thearle. 2 vols. Vol. I. Text. 376 pp. 3s. 6d. Vol. II. Plates. 7s. Collins.

ELEMENTARY PRINCIPLES OF Naval Architecture, chiefly as Applied in the Construction of Wooden Vessels, by James Peake. 2nd ed. 310 pp. Illus. 11 Plates. 1897. Lockwood, 3s. 6d.

MANUAL OF NAVAL ARCHITECTURE, for Officers, Yachtsmen, Shipowners and Shipbuilders, by W. H. White. 8vo. 5th ed. Illus. 1900. Van Nostrand, N.Y., $9.

NAVAL ARCHITECT'S AND SHIPBUILDER'S Pocket Book, by C. Mackrow. Fcp. 8vo. 8th ed. 750 pp. 300 Illus. 1902. Lockwood, 12s. 6d.

NAVAL ARCHITECTURE: MANUAL of Laying Off Iron, Steel and Composite Vessels, by T. H. Watson. Royal 8vo. 2nd ed. 171 pp. 169 Illus. 1898. Longmans, 15s.

Naval Construction, *continued.*

NAVAL ARCHITECTURE: WOOD and Iron Shipbuilding, for Elementary Students, by S. J. P. Thearle. 2 vols. Vol. I. Pott 8vo. 125 pp. 8 Illus. 1873. 1s. Vol. II. 46 Plates. 2s. Collins.

TEXT-BOOK OF NAVAL ARCHITECTURE, for Officers of Royal Navy, by J. J. Welch. 4th ed. 1900. Eyre & Spottiswoode, 3s.

TEXT-BOOK OF THEORETICAL Naval Architecture, for Students, by E. L. Attwood. Cr. 8vo. 2nd ed. 130 Illus. 347 pp. 1900. Longmans, 7s. 6d.

(**Shipbuilding.** Section 46.)

(**Marine Engineering.** See section 21.)

Naval Tactics, Administration.

ALL THE WORLD'S FIGHTING Ships, by F. T. Jane. 3,000 Illus. 1903. Sampson Low, 15s.

ATTACK AND DEFENCE OF COAST Fortifications, by Captain E. Maguire. 8vo. Maps. Van Nostrand, N.Y., $2.50.

DETAILS AND STATION BILL FOR A Battleship, by R. K. Arbuthnot. Pott 8vo. 252 pp. 1901. Simpkin, 2s. 6d.

ELEMENTARY NAVAL TACTICS, by Commander W. Bainbridge-Hoff (U.S.A.). Demy 8vo. 110 pp. 15 Plates. 1894. Chapman, 6s. 6d.

MECHANISM OF MEN OF WAR: Description of Machinery in Modern Fighting Ships, by R. C. Oldknow. Cr. 8vo. 286 pp. 63 Illus. 1896. Bell, 5s.

NAVAL ADMINISTRATION, by Sir R. V. Hamilton. Cr. 8vo. 214 pp. Illus. 1896. Bell, 5s.

NAVAL EFFICIENCY: LIST AND Particulars of Effective Ships of the World's Navies, by A. S. Hurd. 8vo. 332 pp. 1902. Chapman, 7s. 6d.

NAVAL MILITIAMAN'S GUIDE, by J. H. Barnard. Van Nostrand, N.Y., $1.25.

SOME REMARKS ON MODERN Naval Tactics, by C. C. P. Fitzgerald. Cr. 4to. 48 pp. 1896. *Engineering*, 1s.

Navy Lists, Pocket-books.

BRASSEY'S NAVAL ANNUAL, ed. by Hon. T. A. Brassey, B.A. Royal 8vo. Griffin, Portsmouth, 15s.

CLOWES' NAVAL POCKET BOOK, ed. by L. G. C. Laughton. 18mo. 853 pp. Illus. 1900. Thacker, 6s.

MERCANTILE NAVY LIST AND Maritime Directory. Royal 8vo. Annual. Spottiswoode & Co., 12s.

ROYAL NAVY LIST DIARY AND Naval Handbook. 8vo. Annual. Witherby, 3s.

Seamanship and Training.

HINTS TO YOUNG NAVIGATORS OF the Royal Navy and Mercantile Marine. 8vo. 1902. Simpkin, 1s. 6d.

MANUAL OF SEAMANSHIP, for Boys' Training Ships of Royal Navy. 1898. Eyre & Spottiswoode, 1s. 6d.

SERVICE CHEMISTRY: SHORT Manual of Chemistry and its Applications in Naval and Military Services, by V. B. Lewes. 8vo. 570 pp. 1904. Glaisher, 15s.

YOUNG SEAMAN'S MANUAL, for use of U.S. Training Ships and Marine Schools. 8vo. Van Nostrand, N.Y., $3.

Submarines, Torpedoes.

SUBMARINE BOATS, by G. W. Hoogaard. Cr. 8vo. Plates. 1887. Spon, 5s.

SUBMARINE NAVIGATION, Past and Present, by A. H. Burgoyne. 2 vols. Royal 8vo. 732 pp. 268 Illus. 1903. Richards, 31s. 6d.

SUBMARINE WARFARE, Past, Present and Future, by H. C. Fyfe. Chapter on Probable Future of Submarine Boat Construction, by Sir E. J. Reed. Demy 8vo. 360 pp. 50 Illus. 1902. Richards, 7s. 6d.

TORPEDO IN PEACE AND WAR, by F. T. Jane. Obl. 4to. 2nd ed. 164 pp. Illus. 1904. Thacker, 5s.

TORPEDOES AND TORPEDO VESSELS, with a Chapter on Submarines and Submersibles, by Lord Armstrong. Cr. 8vo. 2nd ed. 306 pp. 50 Illus. 1901. Bell, 5s.

(**Nursing.** See section 32.)

SECTION 47.

OILS, FATS, RECIPES.

Analysis of Oils.

CHEMICAL TECHNOLOGY AND ANALYSIS of Oils, Fats, Waxes, and of the Commercial Products derived therefrom, by Dr. J. Lewkowitsch. 3rd ed. 2 vols. Royal 8vo. 1164 pp. 1904. Macmillan, 36s.

LABORATORY COMPANION TO FATS and Oils Industries, by Dr. J. Lewkowitsch, M.A. Demy 8vo. 146 pp. 1901. Macmillan, 6s.

OIL-CHEMISTS' HANDBOOK, by E. Hopkins, B.Sc. (U.S.A.). 8vo. 1900. Chapman, 12s. 6d.

SHORT HANDBOOK OF OIL ANALYSIS, by A. H. Gill (U.S.A.). Post 8vo. 3rd ed. 159 pp. Illus. 1903. Lippincott, 6s.

Cotton-Seed Oil.

COTTON AND COTTON OIL, by D. A. Tompkins. Large 8vo. 481 pp. 1901. D. A. Tompkins, Charlotte, N.C., U.S.A., $7.50.

MANUFACTURE OF COTTON SEED Oil and Allied Products, including Cake, Soap-stock, etc., Machinery, complete list of Mills in the U.S. and abroad. Cr. 8vo. 88 pp. 1897. *National Provisioner*, N.Y., $2.

Animal and Vegetable Oils.

ANIMAL AND VEGETABLE FIXED Oils, Fats, Butters and Waxes, by C. R. A. Wright, D.Sc., B.Sc., F.R.S. Demy 8vo. 2nd ed. 804 pp. 154 Illus. 2 Plates. 1903. Griffin, 25s.

ANIMAL FATS AND OILS: THEIR Practical Production, Purification and Uses, from German of L. E. Andés. Demy 8vo. 2nd ed. 250 pp. 62 Illus. 1903. Scott, Greenwood, 10s. 6d.

COMMERCIAL ORGANIC ANALYSIS, by A. H. Allen. Vol. II. Part I. Fixed Oils and Fats, Glycerine, Nitro-glycerine, Wool-fats, Dégras, etc. Royal 8vo. 3rd ed. 397 pp. Illus. 1899. Churchill, 14s.

PRACTICAL TREATISE ON ANIMAL and Vegetable Fats and Oils, by W. T. Brannt. 2 vols. Med. 8vo. Vol. I. Fixed Fats and Oils. 2nd ed. 528 pp. 237 Illus. 1896. Vol. II. Volatile or Essential Oils. 2nd ed. 128 pp. 302 Illus. 1896. Baird, Philadelphia, $10.

VEGETABLE FATS AND OILS: Their Preparation, Adulteration and Examination, from German of L. E. Andés. Demy 8vo. 2nd ed. 340 pp. 94 Illus. 1902. Scott, Greenwood, 10s. 6d.

Drying Oils.

DRYING OILS, BOILED OIL, AND Solid and Liquid Driers, by L. E. Andés. Demy 8vo. 342 pp. 42 Illus. 1901. Scott, Greenwood, 12s. 6d.

(**Essential Oils.** See **Chemicals,** section 13.)

(**Liquid Fuel.** See **Petroleum.**)

Lubricating Oils and Lubrication.

BEARINGS AND LUBRICATION, for Users of Machinery, by A. J. Wallis-Tayler. 208 pp. 75 Illus. Rider, 3s. 6d.

CAR LUBRICATION, by W. E. Hall (U.S.A.). 12mo. 2nd ed. Chapman, 4s. 6d.

CYLINDER OIL AND CYLINDER Lubrication, by M. Wells and W. S. Taggart. 1903. H. Wells Oil Co., Manchester, 3s. 6d.

LUBRICANTS, OILS AND GREASES, by I. I. Redwood. Demy 8vo. 64 pp. 3 Plates. 1898. Spon, 4s. 6d.

LUBRICATING OILS, FATS AND Greases: Their Origin, Preparation, Properties, Uses and Analyses, by G. H. Hurst. Demy 8vo. 2nd ed. 317 pp. 65 Illus. 1902. Scott, Greenwood, 10s. 6d.

LUBRICATION AND LUBRICANTS, Theory and Practice of Lubrication, by L. Archbutt and M. Deeley. Large 8vo. 451 pp. 123 Illus. 1900. Griffin, 21s.

MANUAL OF LUBRICATION, or How to Choose and how to Use Lubricants, by L. Simpson. Cr. 8vo. 100 pp. Andrews & Co., Manchester, 3s. 6d.

PRACTICAL COMPOUNDING OF OILS, Tallow and Grease for Lubrication, etc., by an Expert Oil Refiner. Demy 8vo. 100 pp. 1898. Scott, Greenwood, 7s. 6d.

Oil Trade Tables, Directory.

OIL MERCHANTS' MANUAL AND Oil Trade Ready-reckoner, compiled by F. F. Sherriff. Demy 8vo. 2nd ed. revised. 214 pp. 1904. Scott, Greenwood, 7s. 6d.

OIL MILLS DIRECTORY. Demy 8vo. 1903. Simpkin, 2s. 6d. boards.

Petroleum, Liquid Fuel.

DESTRUCTIVE DISTILLATION: Manualette of the Paraffin, Coal-Tar, Rosin-Oil, Petroleum and Kindred Industries, by E. J. Mills, D.Sc. 8vo. 4th ed. Illus. Gurney & Jackson, 5s.

HANDBOOK ON PETROLEUM FOR Inspectors under the Petroleum Acts, and for those engaged in Storage, Transport, etc., by J. H. Thompson and Boverton Redwood. Large cr. 8vo. 300 pp. 16 Illus. 2 Plates. 1901. Griffin, 8s. 6d.

LIGHTING (Vol. II. of Groves and Thorp's Chemical Technology). Fats and Oils, by W. Y. Dent; Stearine, by J. McArthur; Candle Manufacture, by L. and F. A. Field; Petroleum Industry and Lamps, by Boverton Redwood; Miners' Safety Lamps, by B. Redwood and D. A. Louis. Royal 8vo. 400 pp. 358 Illus. 1895. Churchill, 20s.

LIQUID FUEL AND ITS COMBUSTION, by W. H. Booth. 8vo. 400 pp. Dutton, N.Y., $8.

LIQUID FUEL FOR MECHANICAL and Industrial Purposes, by E. A. B. Hodgetts. Demy 8vo. 134 pp. 106 Illus. 1890. Spon, 5s.

MARINE TRANSPORT OF PETROLEUM, by G. H. Little. Cr. 8vo. 251 pp. 65 Illus. 1890. Spon, 10s. 6d.

OIL FIELDS OF RUSSIA AND THE Russian Petroleum Industry, by A. B. Thompson. Super Royal 8vo. Illus. Plates. 1904. Lockwood, 63s.

PETROLEUM AND ITS PRODUCTS, by Boverton Redwood, assisted by G. T. Holloway. 2 vols. Large 8vo. Plates. Maps. Vol. I. 403 pp. 136 Illus. Vol. II. 327 Illus. 1896. Griffin, 45s.

PETROLEUM: ITS DEVELOPMENT and Uses, by R. N. Boyd. Cr. 8vo. 190 pp. 1895. Whittaker, 2s.

PETROLEUM: ITS HISTORY, OCCURRENCE, Production and Uses, trans. from German of A. Veith and H. Hoefer by W. T. Brannt. Royal 8vo. 743 pp. 284 Illus. 3 Plates. 1895. Baird, Philadelphia, $7.50.

PETROLEUM LAMP: ITS CHOICE and Use, by Captain J. H. Thomson and B. Redwood. Cr. 8vo. 104 pp. 32 Illus. 1902. Griffin, 1s. limp.

PRACTICAL TREATISE ON MINERAL Oils and their By-products, by I. I. Redwood. Demy 8vo. 336 pp. 67 Illus. Plates. 1897. Spon, 15s.

TECHNOLOGY OF PETROLEUM: OIL Fields of the World: Their History, Geography and Geology, Production, Drilling and Transport; trans. from French of Neuberger and H. Noalhat by J. G. McIntosh. Super Royal 8vo. 550 pp. 153 Illus. 26 Plates. 1901. Scott, Greenwood, 21s.

Recipes for Oil and Colour Trades.

CYCLOPÆDIA OF PRACTICAL RECEIPTS in the Arts, Manufactures and Trades, including Pharmacy, Hygiene and Domestic Economy, by W. North, M.A., and others. 2 vols. 8vo. 7th ed. 1827 pp. 371 Illus. 1892. Churchill, 42s.

LEE'S PRICELESS RECIPES FOR Laboratory, Workshop, Home and Farm. 368 pp. Laird & Lee, Chicago, 50c.

OILMEN'S SUNDRIES AND HOW TO Make Them. Cr. 8vo. 128 pp. 1901. Maclaren, 5s.

RECIPES FOR THE COLOUR, PAINT, Varnish, Oil, Soap and Drysaltery Trades, compiled by an Analytical Chemist. Demy 8vo. 350 pp. 1902. Scott, Greenwood, 7s. 6d.

STANDARD CYCLOPÆDIA OF RECIPES, ed. by C. W. Dana. Henneberry Co., Chicago, $1.50.

SECTION 48.

OPTICAL, MICROSCOPY, INSTRUMENTS.

Barometers.

ANEROID BAROMETER: ITS CONSTRUCTION and Use. 18mo. 106 pp. Illus. Spon, 2s.

BAROMETRICAL DETERMINATION of Heights, by F. J. B. Cordeiro (U.S.A.). Cr. 8vo. Spon, 4s. 6d.

WEATHER GLASS: DESCRIPTIONS of the Barometer, by Rev. R. Tyas, LL.D. 12mo. 2nd ed. 44 pp. Illus. Bemrose, 6d.

(**Lenses.** See section 51.)

Magic Lanterns, Slides.

BOOK OF THE LANTERN, with Directions for Making and Colouring Lantern Pictures, by T. C. Hepworth. 6th ed. 286 pp. 87 Illus. 1899. Hazell, 3s. 6d.

LANTERN SLIDE MAKING, by F. C. Lambert. Cr. 8vo. 144 pp. 27 Illus. 1901. Hazell, Watson, 1s.

LANTERN SLIDE MANUAL: Lantern Slide Making by All Processes, by J. A. Hodges. Cr. 8vo. 202 pp. Plates. 1892. Hazell, 2s.

MAGIC LANTERN AND ITS MANAGEMENT, by J. C. Hepworth. Cr. 8vo. 75 pp. 10 Illus. 1885. Chatto, 1s. 6d.

OPTICAL LANTERNS AND ACCESSORIES, ed. by P. N. Hasluck. Post 8vo. 160 pp. 147 Illus. 1901. Cassell, 1s.

OPTICAL PROJECTION: TREATISE on the Use of the Lantern in Demonstration, by L. Wright. Cr. 8vo. 438 pp. 237 Illus. 1901. Longmans, 6s.

(**Photography.** See section 51.)

Microscopy.

ELEMENTARY TEXT-BOOK OF THE Microscope, by Dr. Griffith. Post 8vo. 192 pp. 451 Illus. 12 Coloured Plates. 1864. Gurney & Jackson, 7s. 6d.

HOW TO WORK WITH THE MICROSCOPE, by Dr. L. S. Beale. 8vo. 5th ed. 100 Plates. Harrison & Sons, 21s.

METHODS AND FORMULÆ USED in the Preparation of Animal and Vegetable Tissues for Microscopical Examination, by P. W. Squire. Cr. 8vo. 93 pp. 1892. Churchill, 3s. 6d.

METHODS OF MICROSCOPICAL RESEARCH, by A. C. Cole. Demy 8vo. 2nd ed. 207 pp. 10 Illus. 1895. Baillière, 6s.

MICROSCOPE AND ITS REVELATIONS, by W. B. Carpenter; revised by W. H. Dallinger. Demy 8vo. 8th ed. 1202 pp. 900 Illus. 22 Plates. 1901. Churchill, 28s.

MODERN MICROSCOPY FOR BEGINNERS, by M. I. Cross and M. J. Cole. Demy 8vo. 2nd ed. 182 pp. 40 Illus. 1895. Baillière, 3s. 6d.

ONE THOUSAND OBJECTS OF THE Microscope, by M. C. Cooke. Cr. 8vo. 180 pp. 12 Plates. 1900. Warne, 2s. 6d.

PRACTICAL METHODS IN MICROSCOPY, by C. H. Clark. Cr. 8vo. 2nd ed. 261 pp. 52 Illus. 17 Plates. 1896. Isbister, 6s.

THE MICROSCOPE: INTRODUCTION to Microscopical Methods, by S. H. Gage (U.S.A.). Demy 8vo. 8th ed. 282 pp. 231 Illus. 1901. Gutenberg Press, 7s. 6d.

Optical.

DISEASES OF THE EYE AND REFRACTION, by G. M. Gould, M.D. and W. L. Pyle, M.D. Cr. 8vo. 295 pp. 109 Illus. 1900. Gutenberg Press, 5s.

ELEMENTARY OPHTHALMIC OPTICS, by F. Fergus. Cr. 8vo. 116 pp. 1903. Blackie, 3s. 6d.

ERRORS OF ACCOMMODATION AND Refraction of the Eye and their Treatment, for Students, by E. Clarke. Cr. 8vo. 236 pp. 1903. Baillière, 5s.

EYE AND ITS CARE, for School Teachers, by Dr. F. Allport, Post 8vo. 48 Illus. Lippincott, 5s.

EYESIGHT AND SCHOOL LIFE, by S. Snell. Demy 8vo. J. Wright & Co., Bristol, 2s. 6d.

GLASS FOR OPTICAL PURPOSES: Four Lectures, by R. T. Glazebrook, M.A., D.Sc. Demy 8vo. 1902. Society of Arts, 1s. paper.

KEY TO SIGHT TESTING, by H. L. Taylor and W. S. Baxter. Demy 8vo. 355 pp. Illus. 1902. J. & H. Taylor, 54 Tenby, Birmingham, 6s.

LENS WORK FOR AMATEURS, by H. Orford. Small cr. 8vo. 240 pp. Illus. 1894. Whittaker, 3s.

Optical, *continued.*

MODERN OPTICAL INSTRUMENTS, by H. Orford. Sq. cr. 8vo. 100 pp. 88 Illus. 1896. Whittaker, 2s. 6d.

OPTICAL MANUAL: HANDBOOK for Guidance of Surgeons in Testing Recruits, etc., by Surgeon-General T. Longmore, C.B. 3rd ed. 1885. Eyre & Spottiswoode, 1s. 6d.

OPTICAL TABLES AND DATA FOR Opticians, by S. P. Thompson, D.Sc. Obl. 8vo. 1900. Spon, 6s.

OPTICIAN'S HANDBOOK, by an Ophthalmic Surgeon. 12mo. 132 pp. 55 Illus. Gutenberg Press, 3s. 6d.

REFRACTION OF THE EYE, for Students, by G. Hartridge. Cr. 8vo. 12th ed. 288 pp. 105 Illus. 1903. Churchill, 6s.

REFRACTION: SIMPLE AND CONCISE Treatise on Practical Sight Testing, by G. E. Druiff. Royal 8vo. 300 pp. 135 Illus. 1903. Anglo-American Optical Co., 10s. 6d.

SPECTACLES AND EYE-GLASSES: Their Forms, Mounting and Proper Adjustment, by R. J. Phillips, M.D. Cr. 8vo. 2nd ed. 105 pp. 49 Illus. 1900. Gutenberg Press, 4s.

STEREOSCOPIC PHENOMENA OF Light and Sight, by T. Brown. Demy 8vo. 100 pp. Illus. 16 Plates. 1903. Gutenberg Press, 3s. 6d.

(**Photo-micrography, Photographic Optics.** See section 51.)

SECTION 49.

PAINTS, COLOURS, VARNISHES.

Paints, Colours, Pigments.

ANALYSIS OF WHITE PAINTS, by G. H. Ellis, B.Sc. *Drugs, Oils and Paints*, Philadelphia, $1.50.

CHEMISTRY OF PAINTS AND PAINTING, by A. H. Church, M.A., D.Sc. Large cr. 8vo. 3rd ed. 355 pp. 1901. Seeley, 6s.

CHEMISTRY OF PIGMENTS, by E. J. Parry, B.Sc., and J. H. Coste. Demy 8vo. 285 pp. 5 Illus. 1902. Scott, Greenwood, 10s. 6d.

DICTIONARY OF CHEMICALS AND Raw Products used in the Manufacture of Paints, Colours and Allied Preparations, by G. H. Hurst. Demy 8vo. 380 pp. 1901. Scott, Greenwood, 7s. 6d.

FACTS ABOUT PROCESSES, PIGMENTS and Vehicles, by A. P. Laurie. Cr. 8vo. 131 pp. Illus. 1895. Macmillan, 3s.

IRON-CORROSION, ANTI-FOULING and Anti-corrosive Paints, from German. Demy 8vo. 275 pp. 62 Illus. 1903. Scott, Greenwood, 10s. 6d.

MANUFACTURE OF LAKE PIGMENTS from Artificial Colours, by F. H. Jennison. Demy 8vo. 136 pp. 16 Coloured Plates, showing specimens of 89 colours specially prepared from recipes given in the book. 1900. Scott, Greenwood, 7s. 6d.

MANUFACTURE OF MINERAL AND Lake Pigments, by Dr. J. Bersch, trans. from German by A. C. Wright, M.A., B.Sc. Demy 8vo. 476 pp. 43 Illus. 1901. Scott, Greenwood, 12s. 6d.

MANUFACTURE OF PAINT, by J. C. Smith, B.Sc. Demy 8vo. 200 pp. 60 Illus. 1 Plate. 1901. Scott, Greenwood, 7s. 6d.

OIL COLOURS AND PRINTING INKS, trans. from German of L. E. Andés. Cr. 8vo. 215 pp. 56 Illus. 1903. Scott, Greenwood, 5s.

PAINT AND COLOUR MIXING, by A. S. Jennings. Demy 8vo. 2nd ed. 152 pp. 72 samples of paint of various colours. 1904. Spon, 5s.

PAINTERS' COLOURS, OILS AND Varnishes, by G. H. Hurst. 3rd ed. Illus. 1902. Griffin, 12s. 6d.

PAINTERS' LABORATORY GUIDE, Handbook on Paints, Colours and Varnishes, by G. H. Hurst. Cr. 8vo. 258 pp. 22 Illus. 1902. Griffin, 5s.

PIGMENTS, PAINT AND PAINTING, by G. Terry. Cr. 8vo. 392 pp. 49 Illus. 1893. Spon, 7s. 6d.

PRACTICAL TREATISE ON THE Manufacture of Colours for Painting, by Riffault, Vergnaud and Tossaint, trans. by A. A. Fesquet. Med. 8vo. 659 pp. 80 Illus. 1874. Baird, Philadelphia, $5.

SIMPLE METHODS FOR TESTING Painters' Materials, by A. C. Wright, M.A., B.Sc. Cr. 8vo. 160 pp. 1903. Scott, Greenwood, 5s.

STUDENT'S MANUAL OF PAINTS, Colours, Oils and Varnishes, by J. Furnell. Cr. 8vo. 96 pp. 12 Illus. 1903. Scott, Greenwood, 2s. 6d.

TESTING AND VALUATION OF RAW Materials used in Paint and Colour Manufacture, by M. W. Jones. Cr. 8vo. 88 pp. 1900. Scott, Greenwood, 5s.

THOMAS' AMERICAN PAINT Trades Reference Book, 20,000 names of American firms and rating. Annual. Thomas Pub. Co., N.Y., $7.50.

(**Painting and Decorating.** See section 33.)

Varnishes, Resins, Polishes.

ANALYSIS OF RESINS AND BALSAMS, trans. from German of Dr. K. Dieterich. Demy 8vo. 340 pp. 1901. Scott, Greenwood, 7s. 6d.

MANUFACTURE OF VARNISHES, Oil Refining and Boiling, and Kindred Industries, trans. from French of A. Livache and adapted to English practice by J. G. McIntosh. Demy 8vo. 400 pp. 27 Illus. 1899. Scott, Greenwood, 12s. 6d.

OILS AND VARNISHES, by J. Cameron. Cr. 8vo. 3rd ed. 376 pp. Illus. 1896. Churchill, 7s. 6d.

PRACTICAL POLISH AND VARNISH Maker, by H. C. Standage. Cr. 8vo. 260 pp. 1892. Spon, 6s.

VARNISHES, LACQUERS, PRINTING Inks and Sealing-waxes, by W. T. Brannt. Cr. 8vo. 338 pp. 39 Illus. Baird, Philadelphia, $3.

Emery Grinding.

EMERY GRINDING MACHINERY, by R. B. Hodgson. Cr. 8vo. 180 pp. 143 Illus. 1903. Griffin, 5s.

SECTION 50.

PATENTS, TRADE MARKS.

ENGLISH PATENT ACTS, arranged as a Code, containing the text of the Acts of 1883-1902. Cr. 8vo. 60 pp. 1903. Simpkin, 2s. 6d.

GLEANINGS FROM PATENT LAW OF all Countries, by W. L. Wise, J.P. Pt. I. Argentine Republic and Germany. Post 8vo. 2nd ed. 208 pp. 1896. Cassell, 2s.

GUIDE TO SEARCH DEPARTMENT of Patent Office Library, with Dictionary of Trade or Fancy Words. 99 pp. 1901. Patent Office, 6d.

HANDBOOK OF PATENT LAW OF all Countries, by W. P. Thompson. 12mo. 9th ed. 1892. Clowes, 2s. 6d.

HANDY GUIDE TO PATENT LAW and Practice, by G. F. Emery, LL.M. 2nd ed. Demy 8vo. 390 pp. 1904. E. Wilson, 15s.

INFRINGEMENT OF PATENTS FOR Inventions, not Designs, by T. B. Hall (U.S.A.). 8vo. R. Clarke Co., Cincinnati, $5.

INTERNATIONAL DIRECTORY OF Patent Agents. 1901. W. Reeves, 6s. 6d.

INVENTORS' MANUAL: HOW TO Work a Patent to Make it Pay. 116 pp. 1901. N. W. Henley & Co., N.Y., $1.

LAW AND PRACTICE CONNECTED with Patents for Inventions, with Reprints of Patents Acts, by J. and J. H. Johnson. Gl. 8vo. 164 pp. 1900. Longmans, 2s. 6d.

LAW AND PRACTICE RELATING TO Patents, Trade Marks and Designs, by D. Fulton. Demy 8vo. 830 pp. 1902. Jordan, 15s.

LAW AND PRACTICE UNDER PATENTS, Designs and Trade Marks Acts, 1883-8, by W. N. Lawson, M.A. Demy 8vo. 3rd ed. 796 pp. 1898. Butterworth, 27s. 6d.

LAW PRACTICE AND PROCEDURE Relating to Patents, Designs and Trade Marks, by S. Brice. 1885. Clowes, 18s.

LAW RELATING TO TRADE MARKS, Trade Name, Merchandise Marks, by D. M. Kirby. Royal 8vo. 2nd ed. 1901. Sweet & Maxwell, 35s.

LAW RELATING TO TRADE MARKS, by R. S. Mushet. Cr. 8vo. 240 pp. 1885. Smith, Elder, 5s.

MANUAL OF JAPANESE LAWS AND Rules Relating to Patents, Trade Marks, etc., by W. S. Hall. 8vo. 1901. Low, 2s.

Patents, Trade Marks, *continued.*

NOTES ON PATENTS AND TRADE Marks, by E. E. Evans Jackson. 1901. Mardon, Son & Hall, 1s.

PATENT, DESIGN AND TRADE Marks Act, 1883, by C. Higgins. Demy 8vo. 1884. Clowes, 12s. 6d.

PATENTEE'S MANUAL, by J. and J. H. Johnson. Demy 8vo. 6th ed. 1890. Clowes, 10s. 6d.

PROPERTY IN TRADE MARKS: Manual on Trade Marks and their Protection. 2nd ed. 1904. Brewer & Son, 1s.

SUPPLEMENT TO PATENT LAWS of the World, by A. and E. Carpmel; edited by a Committee of Institute of Patent Agents. 8vo. 1889. Clowes, 10s.

SECTION 51.

PHOTOGRAPHY.

General.

AMATEUR PHOTOGRAPHER, by E. Wallace. 12mo. 5th ed. H. T. Coates & Co., Philadelphia, $1.

AMATEUR PHOTOGRAPHY, by W. J. L. Adams (U.S.A.). Cr. 8vo. Gay & Bird, 4s.

AMERICAN ANNUAL OF PHOTOGRAPHY, ed. by W. E. Woodbury. Med. 8vo. 418 pp. G. Houghton & Son, 3s.

ARCHITECTURAL PHOTOGRAPHY for Amateurs, by G. A. T. Middleton. Cr. 8vo. 80 pp. Illus. 1898. Hazell, 1s.

BARNET BOOK OF PHOTOGRAPHY, by Practical Writers. Large cr. 8vo. 5th ed. 284 pp. Illus. 1901. Elliott & Sons, Barnet, 1s.

DEVELOPING AND DEVELOPERS, by G. C. Brown. Cr. 8vo. 132 pp. 1900. Hazell, 1s.

DICTIONARY OF PHOTOGRAPHY for Amateur and Professional, by E. J. Wall; revised by T. Bolas. Cr. 8vo. 8th ed. 660 pp. 1902. Hazell, 7s. 6d.

ELEMENTARY PHOTOGRAPHY, by J. A. Hodges. Cr. 8vo. 4th ed. 152 pp. 30 Illus. 1900. Hazell, 1s.

ENLARGEMENTS: THEIR PRODUCTION and Finish, by G. R. Smith. Cr. 8vo. 1903. Hazell, 1s.

EXPERIMENTAL PHOTOGRAPHY, by C. J. Léaper. Cr. 8vo. 3rd ed. 102 pp. Illus. 1898. Hazell, 1s.

EXPOSURE TABLES FOR PHOTOGRAPHERS in India and the East, by G. Ewing. 12mo. Thacker, 1r.

FLASH-LIGHT PHOTOGRAPHY, by R. Slingsby. 4to. 4 Illus. 1902. Marion & Co., 4s.

HANDBOOK OF PHOTOGRAPHIC Terms, by W. Heighway. Cr. 8vo. Carter & Co., 2s. 6d.

HANDBOOK OF PHOTOGRAPHY FOR Amateurs in India, by G. Ewing. Cr. 8vo. 623 pp. Illus. 1895. Thacker, 7rs.

HOW TO TAKE AND FAKE PHOTOGRAPHS, by C. Holland. Cr. 8vo. 1901. Pearson, 1s.

INSTRUCTION IN PHOTOGRAPHY, by Sir W. de W. Abney. 8vo. 10th ed. 502 pp. 176 Illus. 1900. Low, 6s.

MODERN PHOTOGRAPHY, by W. K. Burton. Cr. 8vo. 12th ed. Illus. Carter & Co., 1s.

OZOTYPE: NEW PROCESS FOR Pictorial Photography, by T. Manly. Cr. 8vo. 80 pp. 1901. Hazell, 1s.

PHOTOGRAMS FOR THE YEAR: Best Photographic Work Reproduced and Described. Royal 8vo. Annual. Dawbarn & Ward, 3s.

PHOTOGRAPHIC ENLARGEMENTS: How to Make Them. 7th ed. G. Wheeler & Co., Manchester, 1s.

PHOTOGRAPHER'S NOTEBOOK, by Sir D. L. Salomons, M.A. 16mo. New ed. 43 pp. Marion & Co., 1s.

PHOTOGRAPHIC MANIPULATION, by L. Price. Cr. 8vo. 2nd ed. 304 pp. Illus. 1868. Churchill, 6s. 6d.

PHOTOGRAPHY, ARTISTIC AND Scientific, by A. B. Chatwood and R. Johnson. Demy 8vo. D. Douglas, Edinburgh, 10s. 6d.

PHOTOGRAPHY AS A FINE ART, by C. H. Caffin. Imp. 8vo. 300 pp. 100 Illus. 1901. Doubleday, Page & Co., N.Y., $3.

PHOTOGRAPHY FOR NATURALISTS, by D. English. Royal 8vo. 132 pp. 1902. Iliffe, 5s.

PHOTOGRAPHY: ITS HISTORY, Processes, Apparatus and Materials, by A. Brothers. Demy 8vo. 2nd ed. 367 pp. Plates and 117 Illus. 1899. Griffin, 21s.

PICTURE-MAKING BY PHOTOGRAPHY, by H. P. Robinson. Cr. 8vo. 5th ed. 140 pp. 1902. Hazell, 2s. 6d.

PORTRAITURE FOR AMATEURS without a Studio, by F. C. Lambert. Cr. 8vo. 126 Illus. Part I. Technical. Part II. Pictorial. 1903. Hazell, 1s. each.

PRACTICAL A B C OF PHOTOGRAPHY, by E. J. Wall. 16mo. 264 pp. 1901. Drane, 1s.

PRACTICAL GUIDE TO PHOTOGRAPHY. Cr. 8vo. 6th ed. 288 pp. Illus. 1898. Marion & Co., 2s. 6d.

PRACTICAL ORTHOCHROMATIC Photography, by A. Payne. Cr. 8vo. 178 pp. 1903. Iliffe, 1s.

PRACTICAL PICTORIAL PHOTOGRAPHY, by A. H. Hinton. Cr. 8vo. 178 pp. Illus. 1900. Hazell, 2s. 6d.

PRACTICAL POCKET BOOK OF Photography, by E. Vogel. 12mo. 230 pp. 1902. Sonnenschein, 2s. 6d.

SELECTION OF SUBJECT IN Pictorial Photography, by W. E. Tindall. Med. 8vo. 84 pp. 1902. Iliffe, 3s. 6d.

SHORT CHAPTERS ON ART PHOTOGRAPHY, by H. P. Robinson. 3rd ed. 54 pp. Illus. 1899. Hazell, 1s.

STUDIES IN PHOTOGRAPHY, by J. Andrews. Cr. 8vo. 202 pp. 6 Collotypes. 1892. Hazell, 3s.

SUNLIGHT AND SHADOW: BOOKS for Photographers, ed. by W. J. L. Adams. Large 8vo. Baker & Taylor Co., N.Y., $2.50.

TREATISE ON PHOTOGRAPHY, by Sir W. de W. Abney, K.C.B., D.C.L. Globe 8vo. 10th ed. 425 pp. 134 Illus. 1901. Longmans, 5s.

Cameras.

CAMERAS, LENSES AND SHUTTERS. Cr. 8vo. 2nd ed. 118 pp. 1893. Hazell, 1s.

MAKING AND ADAPTING PHOTOGRAPHIC Apparatus, by F. W. Cooper, etc. 8vo. 180 Diagrams. 1902. Dawbarn, 1s.

PHOTOGRAPHIC APPARATUS: MAKING and Adapting, by F. W. Cooper and D. W. Gawn. 180 Illus. 1902. Dawbarn, 1s.

PHOTOGRAPHIC CAMERAS AND ACCESSORIES: How to Make Cameras, Dark Slides, Shutters and Stands. Post 8vo. 160 pp. 240 Illus. 1901. Cassell, 1s.

USE OF THE HAND CAMERA, by C. Holland. Cr. 8vo. 198 pp. Illus. Constable, 2s. 6d.

Chemistry of Photography.

CHEMISTRY OF PHOTOGRAPHY, 9 Lectures, by R. Meldola. Cr. 8vo. 382 pp. Illus. 1891. Macmillan, 6s.

ELEMENTARY CHEMISTRY OF PHOTOGRAPHIC Chemicals, by C. S. Ellis. Cr. 8vo. 1903. Hazell, 1s. paper.

MANUAL OF PHOTOGRAPHIC CHEMISTRY, Theoretical and Practical, by T. F. Hardwick and J. T. Taylor. Fcp. 8vo. 9th ed. 464 pp. 57 Illus. 1883. Churchill, 7s. 6d.

PHOTOGRAPHIC CHEMISTRY, 3 Lectures, by Prof. R. Meldola, F.R.S. Demy 8vo. 1891. Society of Arts, 1s. paper.

Colour Photography.

COLOUR PHOTOGRAPHY, by A. E. Smith. Cr. 8vo. 72 pp. Illus. 1900. Hazell, 1s.

HANDBOOK OF PHOTOGRAPHY IN Colours. Sec. I. Heliochromy, by Thos. Bolas. Sec. II. Tri-colour Photography, by A. A. K. Tallent. Sec. III. Interference Heliochromy, by E. Senior. Cr. 8vo. 343 pp. Illus. 1900. Marion & Co., 5s.

THREE COLOUR PHOTOGRAPHY, by A. von Hubl. Trans. from German. 8vo. Illus. 1904. Penrose, 7s. 6d.

Lenses.

FIRST BOOK OF THE LENS, for Photographers, by C. W. Piper. Cr. 8vo. 170 pp. Illus. 1901. Hazell, Watson, 2s. 6d.

LENSES AND SYSTEMS OF LENSES Heated Mathematically, by C. Pendlebury. Demy 8vo. 96 pp. 1884. Bell, 5s.

TELEPHOTOGRAPHY: ELEMENTARY Treatise on Construction and Application of the Telephotographic Lens, by T. R. Dallmeyer. 4to. 145 pp. 66 Illus. 26 Plates. 1899. Heinemann, 15s.

Lenses, *continued.*

THE LENS: PRACTICAL GUIDE TO Choice, Use, Testing of Photographic Objectives, by T. Bolas and G. E. Brown. Demy 8vo. 176 pp. 1902. Dawbarn, 2s. 6d.

Painting Photographs.

ART OF PHOTOGRAPHIC PAINTING, by A. H. Bool. Cr. 8vo. Carter & Co., 1s.

HOW TO PAINT PHOTOGRAPHS IN Oil and Water-colour, by A. Baker. 12mo. 1901. Windsor & Newton, 1s.

Photo-micrography.

ELEMENTARY PHOTO-MICROGRAPHY, by W. Bagshaw. Cr. 8vo. 70 pp. Illus. 1902. Iliffe, 1s.

FIRST STEPS IN MICRO-PHOTOGRAPHY, by F. M. Duncan. Cr. 8vo. 104 pp. 1902. Hazell, 1s.

GUIDE TO THE SCIENCE OF PHOTO-MICROGRAPHY, by E. C. Bonsfield, L.R.C.P. 8vo. 174 pp. 34 Illus. 1892. Churchill, 6s.

PHOTO-MICROGRAPHY, by I. H. Jennings, and Preparing Bacteria, by Dr. R. L. Maddox. Cr. 8vo. Carter & Co., 3s.

PHOTO-MICROGRAPHY: MOUNTING and Preparing Microscopic Objects, by A. C. Malley, B.A., M.B. Cr. 8vo. 2nd ed. 166 pp. 28 Illus. 3 Plates. 1885. Lewis, 7s. 6d.

Photographic Optics.

CHEMISTRY OF LIGHT AND PHOTOGRAPHY, by H. Vogel. Cr. 8vo. 6th ed. 302 pp. 100 Illus. 1892. Kegan Paul, 5s.

CONTRIBUTIONS TO PHOTOGRAPHIC Optics, by O. Lummer and S. P. Thompson. Med. 8vo. 135 pp. 1901. Macmillan, 6s.

OPTICS FOR PHOTOGRAPHERS, by W. K. Burton. Cr. 8vo. Illus. Carter & Co., 1s.

OPTICS OF PHOTOGRAPHY AND Photographic Lenses, by J. T. Taylor. Sq. cr. 8vo. 250 pp. 68 Illus. 1898. Whittaker, 3s. 6d.

TREATISE ON PHOTOGRAPHIC OPTICS, by R. S. Cole. Cr. 8vo. 338 Van Nostrand, N.Y.,

Printing.

ART AND PRACTICE OF SILVER Printing, by Sir W. de W. Abney and H. P. Robinson. Post 8vo. 136 pp. 34 Illus. 1888. Low, 2s. 6d. paper.

BROMIDE PRINTING, by F. C. Lambert. Cr. 8vo. 1903. Hazell, 1s.

CARBON PRINTING, by E. J. Wall. 5th ed. Plates. 1899. Hazell, 1s.

ELEMENTARY LESSONS IN SILVER Printing, by W. M. Ashman. Cr. 8vo. Carter & Co., 1s. 6d.

FINISHING THE NEGATIVE, by G. E. Brown. Demy 8vo. 160 pp. 1902. Dawbarn, 2s. 6d.

GELATINO-CHLORIDE OF SILVER Printing Out Process, for Photographers, by W. E. Woodbury. Cr. 8vo. 121 pp. 1891. Hazell, 2s.

PHOTO-AQUATINT: THE GUMBICHROMATE Process, by A. M. and R. Demarcky. 56 pp. 3rd ed. Illus. 1901. Hazell, 1s.

PHOTO-LITHOGRAPHY, for Photographers, trans. from G. Fritz. Demy 8vo. 90 pp. 8 Illus. Plates. 1895. Hazell, 3s. 6d.

PLATINUM TONING, by L. Clark. Cr. 8vo. 5th ed. Illus. 1897. Hazell, 1s.

PLATINOTYPE: ITS PREPARATION and Manipulation, by Sir W. de W. Abney and L. Clark. Post 8vo. 174 pp. 7 Illus. 1895. Low, 2s. 6d. paper.

PLATINOTYPE PRINTING, by A. H. Hinton. Cr. 8vo. 2nd ed. 92 pp. Illus. 1901. Hazell, 1s.

P.O.P.: SIMPLE BOOK OF INSTRUCTION in Use of Silver Printing Out Paper, by A. H. Hinton. Cr. 8vo. 1902. Hazell, 1s.

PRACTICAL GUIDE TO PHOTO-PRINTING and Photo Mechanical Processes, by W. K. Burton. Cr. 8vo. 2nd ed. 415 pp. Illus. 1892. Marion, 4s.

Retouching.

ART OF RETOUCHING, for Amateur Photographers, by J. Hubert. Cr. 8vo. 12th ed. 84 pp. 10 Illus. 1903. Hazell, 1s.

ART OF RETOUCHING, FINISHING and Colouring Photographs, by R.

Johnson. Demy 8vo. 5th ed. 102 pp. Plates. 1901. Marion, 2s.

ENAMELLING AND RETOUCHING, for Photographers, by P. Piquepe. Cr. 8vo. Carter, 2s. 6d.

PRACTICAL RETOUCHING, by D. Butt. Cr. 8vo. 78 pp. 1902. Iliffe, 1s.

Studios.

PHOTOGRAPHIC STUDIO: ITS CONSTRUCTION, Design and Selection of a Locality, by T. Bolas. Cr. 8vo. 90 pp. 28 Illus. 1895. Marion, 2s.

SECTION 52.

PHYSICS.

ADVANCED HEAT, by R. W. Stewart. Cr. 8vo. 3rd ed. 350 pp. 90 Diagrams. 1903. Clive, 3s. 6d.

ELEMENTARY TREATISE ON Physics, Experimental and Applied, by Ganot; trans. by C. Atkinson. Demy 8vo. 16th ed. 1,150 pp. 1,048 Illus. 1902. Longmans, 15s.

EXPERIMENTAL SCIENCE, ELEMENTARY, Practical and Elementary Physics, by G. M. Hopkins. Royal 8vo. 23rd ed. 1108 pp. 1902. Spon, 21s.

ELEMENTARY TREATISE ON Physics, by Prof. Ganot; trans. by E. Atkinson. Large cr. 8vo. 15th ed. 1142 pp. 1057 Illus. 9 Plates. 1901. Longmans, 15s.

LABORATORY MANUAL OF PHYSICS, by H. Crew and R. R. Tatnall. Cr. 8vo. 248 pp. 1902. Macmillan, 5s.

MANUAL OF LABORATORY PHYSICS, by H. M. Tory, M.A. and F. H. Pitcher, M.Sc. (U.S.A.). Cr. 8vo. 288 pp. 65 Illus. Chapman, 8s. 6d.

MEASUREMENT AND WEIGHING: First Year's Course in Elementary and Practical Physics, by E. Edser. Cr. 8vo. 111 pp. 36 Illus. 1899. Chapman & Hall, 2s. 6d.

PHYSICS: EXPERIMENTAL AND Theoretical, by R. H. Jude, D.Sc., and H. Gossin. Part I. Mechanics, Hydrostatics and Pneumatics. 223 pp. 149 Illus. 1899. 3s. 6d. Part II. Heat. 566 pp. 386 Illus. 1899. 7s. 6d. Part III. Acoustics. 128 pp. 49 Illus. 1899. 2s. 6d. Chapman.

SOUND, LIGHT AND HEAT, by M. R. Wright. Cr. 8vo. 3rd ed. 270 pp. 165 Illus. 1890. Longmans, 2s. 6d.

TEXT-BOOK OF LIGHT, by R. W. Stewart, D.Sc. Cr. 8vo. 3rd ed. 210 pp. Clive, 3s. 6d.

TEXT-BOOK OF SOUND, by E. Catchpool. Cr. 8vo. 3rd ed. 210 pp. Clive, 3s. 6d.

(**Chemistry.** See section 13. **Electricity.** See section 19. **Mechanics.** See section 21. **Optics.** See section 48.)

SECTION 53.

PHYSICAL TRAINING.

ART OF SWIMMING AND AIDS TO Life Saving, by J. A. Jarvis. Cr. 8vo. 108 pp. 1902. Hutchinson, 1s.

DRILL BOOK FOR ELEMENTARY Schools (Swedish System), by J. Lishman. Demy 8vo. 288 pp. 400 Illus. 150 Selections of Music. 1901. Longmans, 7s. 6d.

DRILL FOR THE STANDARDS IN ELEMENTARY Schools, by A. Alexander. Cr. 8vo. 2nd ed. 216 Illus. Philip, 2s. 6d.

GIRLS' PHYSICAL TRAINING: Movements to Music, by A. R. James. Super Royal 4to. 100 pp. Illus. 1898. Macmillan, 7s. 6d.

GYMNASTIC EXERCISES (1,076) ON Horizontal and Parallel Bars, Rings and Horse, by F. J. Harvey. Cr. 8vo. 1903. Physical Training Pub. Co., 1s.

HEALTHFUL EXERCISES FOR GIRLS, by A. Alexander. 177 pp. 6th ed. 200 Illus. 1900. Philip, 2s. 6d.

IDEAL HEALTH AND HOW TO Attain It, by A. Bryce. Cr. 8vo. 102 pp. Illus. 1902. J. Wright & Co., Bristol, 1s.

MANUAL OF DRILL AND PHYSICAL Exercises, for Elementary and Secondary Schools, by T. Chesterton. Cr. 8vo. 155 pp. 81 Illus. 1901. Gale & Polden, 3s.

Physical Training, *continued.*

MANUAL OF DRILL AND WAND Exercises, for Elementary and Secondary Schools, by T. Chesterton. Cr. 8vo. 72 pp. 36 Illus. 37 Plates. 1901. Gale & Polden, 1s.

MANUAL OF PHYSICAL CULTURE and System of Musical Drill for Teachers in Schools, by G. Cruden. Cr. 8vo. 9th ed. 314 pp. 1901. Simpkin, 3s. 6d.

MANUAL OF SWEDISH DRILL, for Teachers and Students, by G. L. Melis. Cr. 8vo. 2nd ed. 1902. Sampson Low, 2s. 6d.

MODERN GYMNAST, by C. Spencer. Cr. 8vo. 125 pp. 120 Illus. Warne, 1s.

MODERN GYMNASTIC EXERCISES, by A. Alexander. Vol. I. Elementary. Cr. 8vo. 6th ed. 140 pp. 200 Illus. 1901. 3s. 6d. Vol. II. Advanced. Demy 8vo. 2nd ed. 219 pp. 270 Illus. 3s. 6d. G. Philip & Son.

MUSCLES AND HOW TO DEVELOP Them, by F. J. Harvey. Royal 8vo. 70 Illus. 7 Plates. 1902. Simpkin, 1s.

MUSICAL DRILL FOR INFANTS, by A. Alexander. 12mo. 8th ed. 92 pp. 120 Illus. 1902. Philip, 2s. 6d.

MUSICAL DRILL FOR SCHOOLS, by A. Alexander. Demy 8vo. 2nd ed. 131 pp. 132 Illus. Philip, 3s. 6d.

NATURAL METHOD OF PHYSICAL Training, by E. Checkley (U.S.A.). Post 8vo. New ed. 174 pp. Illus. 1897. Putnam's, 2s. 6d.

ONE THOUSAND DUMB-BELL, Indian Club and Steel Bar Exercises, by F. J. Harvey. 16mo. 1901. Simpkin, 6d.

PHYSICAL DEVELOPMENT AND Exercise for Women, by Mary T. Bissill, M.D. 12mo. Dodd, Mead & Co., N.Y., $1.25.

PHYSICAL DRILL OF ALL NATIONS, by A. Alexander. Demy 8vo. 165 pp. Illus. 1894. Philip, 3s. 6d.

PHYSICAL TRAINING AT HOME, by A. Alexander. Cr. 8vo. 110 pp. Illus. 1898. Horace Cox, 2s.

SCHOOL GYMNASTICS, by J. H. Bancroft. Cr. 8vo. 298 pp. 237 Illus. 1900. Isbister, 5s.

SCHOOL GYMNASTICS WITH LIGHT Apparatus, by J. H. Bancroft. Cr. 8vo. 506 pp. Illus. 1900. Isbister, 7s. 6d.

SCHOOLMASTER'S DRILL ASSISTANT, for Elementary Schools, by Com. F. M. Norman. Demy 12mo. 14th ed. 61 pp. 16 Plates. 1881. Bemrose, 2s.

STRENGTH AND HOW TO OBTAIN It, by E. Sandow. Cr. 8vo. 2nd ed. 148 pp. Plates. 1899. Gale & Polden, 2s. 6d.

SWEDISH SYSTEM OF PHYSICAL Education: Its Medical and General Aspects, by T. Johnson. 2nd ed. 27 Illus. J. Wright & Co., Bristol, 3s. 6d.

THEORY OF PHYSICAL EDUCATION in Elementary Schools, by T. Chesterton. Cr. 8vo. 182 pp. 55 Illus. 1895. Gale & Polden, 3s.

TRAINING OF THE BODY, by F. A. Schmidt and E. H. Miles. Med. 8vo. 544 pp. 1901. Sonnenschein, 2s. 6d.

SECTION 54.

PLUMBING, HEATING, VENTILATION.

Heating.

AMERICAN STEAM AND HOT-WATER Heating Practice. 585 Illus. *Engineering Record*, N.Y., $4.

ESSAYS ON HOUSE HEATING BY Steam, Hot Water and Hot Air, ed. by A. O. Kittredge (U.S.A.). Demy 8vo. 82 Plates. Spon, 12s. 6d.

FORMULÆ AND TABLES FOR HEATING, by J. H. Kinealy (U.S.A.). Gl. 8vo. 56 pp. Spon, 3s. 6d.

FURNACE HEATING: WARMING Buildings with Hot Air, by W. G. Snow. 8vo. 2nd ed. Illus. 1901. D. Williams, N.Y., $1.50.

HEATING AND VENTILATION OF Houses, by C. F. Townsend. Sq. 8vo. 36 pp. 31 Illus. 1903. Dawbarn, 6d. paper.

HOT-WATER HEATING AND FITTING, by W. J. Baldwin. Large 8vo. 392 pp. *Engineering Record*, N.Y., $2.50.

HOT-WATER HEATING ON THE LOW Pressure System, by F. A. Fawkes. 12mo. 78 pp. 32 Illus. 1882. Batsford, 1s.

MANUAL OF HEATING AND VENTILATION, for Engineers and Architects, by F. Schumann. 12mo. Illus. Van Nostrand, N.Y., $1.50.

PRACTICAL TREATISE ON STEAM Heating, by F. Dye. Demy 8vo. 238 pp. 129 Illus. 1901. Spon, 10s.

PRACTICAL TREATISE ON WARMING Buildings by Hot Water, by C. Hood, rewritten by F. Dye. Demy 8vo. 3rd ed. 593 pp. 369 Illus. 1897. Spon, 15s.

STEAM AND HOT-WATER FITTERS' Text-book, by T. McNeill. Gl. 8vo. 140 pp. Illus. D. Williams Co., N.Y., $1.

STEAM HEATING FOR BUILDINGS: Hints for Steam Fitters, by W. J. Baldwin (U.S.A.). Cr. 8vo. 370 pp. 130 Illus. 1900. Chapman, 10s. 6d.

STEAM-HEATING PROBLEMS, OR Questions, Answers and Descriptions Relating to Steam Heating and Steam Fitting. 109 Illus. *Engineering Record*, N.Y., $3.

(**Municipal Sanitation.** Section 34.)

Plumbing, Sanitary Engineering.

AMERICAN PLUMBING PRACTICE. 536 Illus. *Engineering Record*, N.Y., $3.

BYE-LAWS AS TO HOUSE DRAINAGE and Sanitary Fittings made by the London County Council, annotated by G. J. G. Jensen. Cr. 8vo. 139 pp. 109 Illus. 1 Diagram. 1901. Sanitary Pub. Co., 3s. 6d.

COMPLETE AND PRACTICAL TREATISE on Plumbing and Sanitation, by G. B. Davis and F. Dye. 2 vols. 4to. 818 pp. 637 Illus. Plates. Spon, 55s.

DEFECTS IN PLUMBING AND DRAINAGE Work, by F. Vacher, M.D. Demy 8vo. 3rd ed. 93 pp. 126 Illus. 1903. J. Heywood, 1s.

DOMESTIC SANITARY DRAINAGE and Plumbing Lectures, by W. R. Maguire. Demy 8vo. 3rd ed. 475 pp. 332 Illus. 1896. Kegan Paul, 12s.

DRAINAGE OF HABITABLE BUILDINGS, by W. L. Beardmore. Cr. 8vo. 100 pp. Illus. 1892. Whittaker, 2s. 6d.

DRAINAGE LAWS OF OHIO (U.S.A.), by F. Giauque. 8vo. R. Clarke Co., Cincinnati, $3.50.

DRAINAGE OF TOWN AND COUNTRY Houses, by G. A. T. Middleton. Cr. 8vo. 160 pp. 93 Illus. 1903. Batsford, 4s. 6d.

DRAINAGE OF VILLAGES, by W. Spinks. Cr. 8vo. 58 pp. 1895. Sanitary Pub. Co., 1s. paper.

ELEMENTS OF SANITARY ENGINEERING, by M. Merriman (U.S.A.). Demy 8vo. 222 pp. Illus. 1899. Chapman, 8s. 6d.

EXTERNAL PLUMBING WORK: Treatise on Lead Work for Roofs, by J. W. Hart. 2nd ed. 272 pp. 180 Illus. 1902. Scott, Greenwood, 7s. 6d.

HINTS TO PLUMBERS ON JOINT Wiping, Pipe Bending and Lead Burning, by J. W. Hart. Demy 8vo. 3rd ed. 313 pp. 184 Illus. 1901. Scott, Greenwood, 7s. 6d.

HOT WATER SUPPLY: FITTING OF Hot Water Apparatus for Domestic and General Purposes, rewritten, by F. Dye. Cr. 8vo. 5th ed. 80 pp. 48 Illus. 1902. Spon, 3s.

HOUSE DRAINAGE, for Architects and Building Inspectors, by G. A. T. Middleton. Cr. 8vo. 2nd ed. 67 pp. 22 Plates. 1895. Batsford, 3s. 6d.

HOUSE DRAINAGE AND SANITARY Fitments, by G. J. G. Jensen. Cr. 8vo. 257 pp. 347 Illus. 1900. Sanitary Pub. Co., 5s.

HOUSE DRAINAGE AND SANITARY Plumbing, by W. P. Gerhard (U.S.A.). 18mo. 7th ed. 231 pp. Spon, 2s.

HOUSE DRAINAGE MANUAL, by W. Spinks. Demy 8vo. 2nd ed. 416 pp. 1903. Biggs, 7s. 6d.

HOW TO DRAIN A HOUSE, for Householders, by G. E. Waring (U.S.A.). Cr. 8vo. 2nd ed. Spon, 6s.

IMPROVED PLUMBING APPLIANCES, by J. P. Putnam. 8vo. 91 Illus. Comstock, N.Y., $1.

LECTURES TO PLUMBERS, by J. W. Clarke. Cr. 4to. 272 pp. 450 Illus. Batsford, 5s.

Plumbing, Sanitary Engineering, *continued.*

MODERN HOUSE DRAINAGE, by G. J. G. Jensen. 1904. Sanitary Publishing Co., 2s. 6d.

MODERN PLUMBING, STEAM AND Hot-water Heating, by J. J. Lawler. 4to. 284 Illus. Plates. Lockwood, 21s.

PLUMBER AND SANITARY HOUSES, by S. S. Hellyer. Royal 8vo. 6th ed. 489 pp. 262 Illus. 30 Plates. 1899. Batsford, 12s. 6d.

PLUMBING, by W. P. Buchan. Cr. 8vo. 8th ed. 364 pp. 509 Illus. 1899. Lockwood, 3s. 6d.

PLUMBING AND HOUSE DRAINAGE Problems. Royal 8vo. 244 pp. 146 Illus. *Metal Worker*, N.Y., $1.50.

PLUMBING, DRAINAGE, WATER Supply and Hot-water Fitting, by J. Smeaton. Demy 8vo. 236 pp. 217 Illus. 1893. Spon, 7s. 6d.

PLUMBING: ITS THEORY AND Practice, for Workmen and Students, by S. S. Hellyer. Small post 8vo. 4th ed. 294 pp. 285 Illus. 1898. Bell, 5s.

PLUMBING PROBLEMS: QUESTIONS, Answers and Descriptions. Large 8vo. 142 Illus. *Engineering Record*, N.Y., $2.

POCKET-BOOK OF TABLES AND Memoranda for Plumbers, etc. 64mo. 312 pp. 1904. Batsford, 1s. 6d.

PRACTICAL HINTS ON JOINT Wiping, for Beginners. 6th ed. 66 pp. 41 Illus. 1901. D. Williams Co., N.Y., 25c.

PRACTICAL PLUMBER'S WORK, ed. by P. N. Hasluck. Illus. 1903. Cassell, 2s.

PRACTICAL SANITATION, by G. Reid, M.D. Demy 8vo. 10th ed. 346 pp. 106 Illus. 1903. Griffin, 6s.

PRACTICAL SCIENCE FOR PLUMBERS, Students, etc., by J. W. Clarke. Cr. 8vo. 228 pp. 127 Illus. 1903. Batsford, 5s.

PRINCIPLES OF HOT WATER Supply, by J. W. Hart. Demy 8vo. 177 pp. 129 Illus. 1900. Scott, Greenwood, 7s. 6d.

RECENT PRACTICE IN THE Sanitary Drainage of Buildings, by W. P. Gerhard (U.S.A.). 18mo. 2nd ed. 175 pp. Spon, 2s.

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SANITARY ENGINEERING, by Colonel E. C. S. Moore. 8vo. 2nd ed. 830 pp. 860 Illus. 140 Tables. 92 Plates. 1901. Batsford, 32s.

SANITARY ENGINEERING, for Sanitary Authorities and Students, by F. Wood. Cr. 8vo. 316 pp. Illus. 1902. Griffin, 3s. 6d.

SANITARY ENGINEERING OF Buildings, by W. P. Gerhard. 8vo. 454 pp. 103 Illus. 6 Plates. Comstock, N.Y., $5.

SANITARY ENGINEER'S POCKET Book: 100 Report Forms, etc., by E. A. S. Fawcett. Long 8vo. 1899. Sanitary Pub. Co., 3s. 6d.

SANITARY FITTINGS AND PLUMBING, by G. L. Sutcliffe. Cr. 8vo. 275 pp. 212 Illus. 1901. Whittaker, 5s.

SANITARY HOUSE DRAINAGE: ITS Principles and Practice, by T. E. Coleman. Cr. 8vo. Illus. Spon, 6s.

SANITARY PLUMBING AND DRAINAGE, by J. W. Hart. Demy 8vo. 250 pp. 208 Illus. 1904. Scott, Greenwood, 7s. 6d.

SANITARY WORK IN SMALL TOWNS and Villages, by C. Slagg. Cr. 8vo. 1883. Lockwood, 3s.

SANITATION OF DOMESTIC BUILDINGS, by F. Latham. Cr. 8vo. 132 pp. 98 Illus. 1898. Sanitary Pub. Co., 2s. 6d.

SANITATION, PERSONAL AND Public: Book for County, District and Parish Councillors. Cr. 8vo. 210 pp. 1903. Stock, 2s. 6d.

SEWER GAS, AND HOW TO KEEP it out of Houses: Handbook on House Drainage, by O. Reynolds. Cr. 8vo. 3rd ed. 34 pp. 8 Illus. 1876. Macmillan, 1s. 6d.

STANDARD PRACTICAL PLUMBING, by J. P. Davies. 2 vols. Vol. I. Royal 8vo. 4th ed. 7s. 6d. Vol. II. Royal 8vo. Illus. 10s. 6d. Spon.

TECHNICAL PLUMBING, by S. B. Bennett. Illus. 1903. Author, Ancoats House, Eaglescliffe, Durham.

THOMAS' PLUMBING: STEAM AND Gas Fitting Trades Reference Book; 30,000 Names of American Firms. 12mo. Annual. Thomas Pub. Co., N.Y., $7.50.

TREATISE ON THE MODERN Sanitary Appliances for Healthy Residences and Public Institutions, for Students, by F. Colyer. Cr. 8vo. Spon, 5s.

(**Public Health.** See Section 34.)

Ventilation.

HEALTH AND COMFORT IN HOUSE Building, or, Ventilation with Warm Air by Self-acting Suction Power, by J. Drysdale, M.D., and J. W. Hayward, M.D. 8vo. 3rd ed. Spon, 7s. 6d.

HEATING AND VENTILATING OF Buildings, by R. C. Carpenter (U.S.A.). Royal 8vo. 4th ed. 562 pp. 272 Illus. 1902. Chapman, 12s. 6d.

MECHANICS OF VENTILATION, by G. W. Rafter (U.S.A.). 16mo. 2nd ed. 143 pp. Spon, 2s.

NOTES ON THE VENTILATION AND Warming of Houses, Churches, Schools and other Buildings, by E. H. Jacob, M.A., M.D. 16mo. 124 pp. 16 Illus. 1894. S.P.C.K., 1s.

TREATISE ON ACOUSTICS IN CONNECTION with Ventilation, by A. Saeltzer. 12mo. Van Nostrand, N.Y., $1.

VENTILATING AND HEATING, by J. S. Billing, A.M., M.D. (U.S.A.). Demy 8vo. 500 pp. 210 Illus. 1893. Kegan Paul, 25s.

VENTILATION AND WARMING OF School Buildings, by G. B. Morrison. E. Arnold, 4s. 6d.

VENTILATION HEATING AND MANAGEMENT of Churches and Public Buildings, by J. W. Thomas. Cr. 8vo. 148 pp. 1903. Longmans, 2s. 6d.

VENTILATION OF BUILDINGS, by W. P. Buchan. Cr. 8vo. 170 Illus. Lockwood, 3s. 6d.

(See also **Heating** above.)

SECTION 55.

POTTERY, CHINA, BRICKS.

Brick-making.

ARCHITECTURAL POTTERY: BRICKS, Tiles, Pipes, Enamelled Terra-cottas, Ordinary and Incrusted Quarries, Stoneware, Mosaics, etc., from French of L. Lefêvre. Royal 8vo. 500 pp. 950 Illus. 5 Plates. 1900. Scott, Greenwood, 15s.

MANUFACTURE OF GLAZED BRICKS and Glazed Sanitary Ware, by H. Ansell. Cr. 8vo. 2nd ed. 187 pp. 1898. *British Clayworker*, 7s. 6d.

PRACTICAL TREATISE ON THE Manufacture of Bricks, Tiles, Terra-cottas, etc., by C. T. Davis. Demy 8vo. 628 pp. 261 Illus. 1895. Baird, Philadelphia, $5.

SCIENCE OF BRICK-MAKING, by G. F. Harris. Cr. 8vo. 160 pp. 1897. *British Clayworker*, 2s. 6d.

SEWER PIPE AND HOW TO MAKE it, by A. Vogt and J. A. Turner. Windsor & Kenfield Co., Chicago, 25c. paper.

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China Painting, *continued.*

POTTERY PAINTING, by F. Miller. Cr. 8vo. 2nd ed. 147 pp. 55 Illus. E. Menken, 5s.

PRACTICAL LESSONS IN PAINTING on China and Porcelain, trans. from French of Baronne Delamardelle. Cr. 8vo. 64 pp. 1896. Lechertier Barbe, 1s. paper.

SUGGESTIONS TO CHINA PAINTERS, by M. L. McLaughlin. Sq. 12mo. R. Clarke Co., Cincinnati, $1.

Pottery—General.

BOW, CHELSEA AND DERBY PORCELAIN, ed. by W. Bemrose. Imp. 8vo. 1898. Bemrose, 42s.

CERAMICS OF SWANSEA AND NANTGARW, by W. Turner. Cr. 4to. Illus. 1897. Bemrose, 42s.

CHINESE PORCELAIN, by W. G. Gulland. 2 vols. Large cr. 8vo. Vol. I. 270 pp. 485 Illus. 1898. Vol. II. 506 pp. 411 Illus. 1903. Chapman, 10s. 6d. each.

ENCYCLOPÆDIA OF CERAMICS, by W. P. Jervis. 1903. *Crockery and Glass Journal*, N.Y., $6.50.

ENGLISH POTTERY AND PORCELAIN, by Rev. E. A. Downman. Cr. 8vo. 190 pp. 1899. Upcott Gill, 3s. 6d.

HISTORY AND DESCRIPTION OF Chinese Porcelain, by C. Monkhouse. Royal 8vo. 176 pp. 54 Illus. 24 Coloured Plates. 1901. Cassell, 30s.

HISTORY AND DESCRIPTION OF English Earthenware and Stoneware, by W. Burton. Imp. 8vo. 200 pp. 24 Plates. 1904. Cassell, 30s.

HISTORY AND DESCRIPTION OF English Porcelain, by W. Burton. Royal 8vo. 192 pp. 35 Coloured Plates and 48 Plain Plates. 1902. Cassell, 63s.

POTTERY AND PORCELAIN, by F. Litchfield. Royal 8vo. 362 pp. 150 Illus. 7 Coloured Plates. 1900. Truslove, 15s.

POTTERY AND PORCELAIN, by J. W. Whitehead. Cr. 8vo. 308 pp. *Estates Gazette*, 5s.

POTTERY AND PORCELAIN OF THE United States, by E. A. Barber (U.S.A.) Demy 8vo. 2nd ed. 539 [illegible]us. 1901. Putnam, 15s.

WORCESTER CHINA: RECORD OF the Work of Forty-five Years, 1852-1897, by R. W. Binns. 8vo. 32 Plates. 1897. B. Quaritch, 21s.

Pottery Manufacture.

ARCHITECTURAL POTTERY, BRICK, Tiles, Pipes, Terra-cottas, Stoneware, etc., from French of L. Lefêvre. Royal 8vo. 500 pp. 950 Illus. 5 Plates. 1900. Scott, Greenwood, 15s.

ART OF RIVETING GLASS, CHINA and Earthenware, by J. Howarth. Demy 8vo. 2nd ed. 24 pp. Illus. 1900. Scott, Greenwood, 1s. paper.

CERAMIC TECHNOLOGY: BEING some Aspects of Technical Science as applied to Pottery Manufacture, ed. by C. F. Binns. Demy 8vo. 100 pp. 1897. Scott, Greenwood, 12s. 6d.

CHEMISTRY OF POTTERY, by K. Langenbeck. Sq. cr. 8vo. 195 pp. Illus. 1895. Chemical Pub. Co., Easton, Pa., $2.

CHEMISTRY OF THE SEVERAL Natural and Artificial Heterogeneous Compounds used in Manufacturing Porcelain, Glass and Pottery, by S. Shaw; originally issued 1837, reissued 1900. Royal 8vo. 750 pp. Scott, Greenwood, 14s.

CLAY GLAZES AND ENAMELS, by H. R. Griffen. 138 pp. 1896. Randall & Co., Indianapolis, U.S.A., $5.

CLAYS AND CLAY INDUSTRIES OF Wisconsin, by E. R. Buckley. 8vo. 1316 pp. 54 Plates. 1901. Wesley, 10s.

COLLECTED WRITINGS OF HERMANN August Seger, prepared from Records of Royal Porcelain Factory at Berlin, by Dr. H. Hecht and E. Cramer (U.S.A.), trans. by members of American Ceramic Society. 2 vols. Royal 8vo. Vol. I. 550 pp. 1902. Vol. II. 551 pp. 1903. Scott, Greenwood, 30s. each.

HISTORY OF THE STAFFORDSHIRE Potteries and the Rise and Progress of the Manufacture of Pottery and Porcelain, by S. Shaw; originally issued in 1829, reissued 1900. Demy 8vo. 265 pp. Scott, Greenwood, 7s. 6d.

HOW TO ANALYSE CLAY, by H. M. Ashby (U.S.A.). Demy 8vo. 74 pp. 20 Illus. 1901. Scott, Greenwood, 2s. 6d.

MANUAL OF PRACTICAL POTTING, ed. by C. F. Binns. Demy 8vo. 3rd ed. 200 pp. 1901. Scott, Greenwood, 17s. 6d.

MATERIAL AND DESIGN IN POTTERY, by W. Burton. Demy 8vo. 1897. Society of Arts, 1s. paper.

NOTES ON POTTERY CLAYS: THEIR Distribution, Properties, Uses and Analyses of Ball Clays, China Clays and China Stone, by J. Fairie. Cr. 8vo. 132 pp. 1901. Scott, Greenwood, 3s. 6d.

NOTES ON THE MANUFACTURE OF Earthenware, by E. A. Sandeman. Cr. 8vo. 371 pp. Illus. 1901. Virtue, 7s. 6d.

RESEARCHES ON LEADLESS GLAZES, by W. J. Furnival. Demy 8vo. 135 pp. 1898. W. J. Furnival, Stone, Staffs., £5 5s.

TEXT-BOOKS ON CERAMIC CALCULATIONS, by W. Jackson. Cr. 8vo. 86 pp. 1904. Longmans, 3s. 6d.

TREATISE ON THE CERAMIC INDUSTRIES: Complete Manual for Pottery, Tile and Brick Works, by E. Bourry, trans. from French by W. P. Rix. Royal 8vo. 760 pp. 323 Illus. 1901. Scott, Greenwood, 21s.

Pottery Marks.

CHINA COLLECTOR'S POCKET COMPANION, by Mrs. B. Palliser. Cr. 8vo. 9th ed. 164 pp. Sampson Low, 5s.

ENGLISH CHINA AND CHINA Marks. Cr. 8vo. 7th ed. 35 pp. E. Menken, 1s. 3d.

MANUAL OF MARKS ON POTTERY and Porcelain, by W. H. Hooper and W. C. Phillips. 16mo. 2nd ed. 240 pp. Illus. 1900. Macmillan, 4s. 6d.

MARKS AND MONOGRAMS ON European and Oriental Pottery and Porcelain, by W. Chaffers; revised and edited by F. Litchfield. 10 × 6½ in. 9th ed. 996 pp. 1900. Reeves & Turner, 42s.

POTTERY MARKS, by W. P. Jervis. Royal 8vo. 104 pp. Jervis, Newark, N.J., U.S.A., 50c.

(**Property.** See section 38.)

SECTION 56.

PUBLIC MEETINGS, ELECTIONS, TAXES.

Elections, Municipal Work.

CANDIDATE'S AND AGENT'S GUIDE in Contested Elections, by H. C. Richards, K.C., M.P. Cr. 8vo. 3rd ed. 182 pp. 1900. Jordan, 3s. 6d.

COUNTY COUNCILS, MUNICIPAL Corporations, Urban and District Councils' Companion. Large cr. 8vo. 1250 pp. Annual. Kelly's, 10s. 6d.

ELECTION MANUAL FOR PARISH and District Councillors and Guardians, by W. C. Ryde. Demy 8vo. 1894. Reeves & Turner, 7s. 6d.

ELECTION MANUALS, by F. R. Parker. Cr. 8vo. 1892. Vol. I. For the Presiding Officer. Vol. II. For the Polling Agent. Vol. III. For the Counting Assistant. Vol. IV. For the Volunteer Assistant. Clowes, 2s. 6d. each.

LAW OF DISTRICT AND PARISH Councils, by J. Lithiby. Demy 8vo. 2nd ed. 659 pp. 1897. E. Wilson, 15s.

LAW OF ELECTIONS AND ELECTION Petitions, by E. C. Leigh and H. D. de Marchant; 4th ed. by G. Anderson and C. E. Ellis. Demy 8vo. 1885. Clowes, 17s. 6d.

MANUAL FOR OVERSEERS, by A. F. Jenkin. Cr. 8vo. 2nd ed. 456 pp. 1901. Knight, 5s.

MUNICIPAL ADMINISTRATION, by J. A. Fairlie (U.S.A.). Cr. 8vo. 1901. Macmillan, 12s 6d.

MUNICIPAL TRADE: ADVANTAGES and Disadvantages, by L. Darwin. Med. 8vo. 488 pp. 1903. Murray, 12s.

PRACTICAL READY-REFERENCE Guide to Parish Councils and Parish Meetings, by J. H. Stone and J. G. Pease. Cr. 8vo. 8th ed. 278 pp. 1898. Philip, 6s.

Public Meetings.

CHAIRMAN AND SPEAKERS' GUIDE: Rules for Public Meetings. 18mo. E. Howell, Liverpool, 2s.

CHAIRMAN'S HANDBOOK, by Sir R. F. D. Palgrave. 12mo. 13th ed. 1904. Low, 2s.

CONDUCT OF PUBLIC MEETINGS, by J. H. Cooke. Cr. 8vo. 2nd ed. Alexander & Shepheard, 1s. 6d.

GUIDE TO BUSINESS OF PUBLIC Meetings, with Duties and Powers of Chairman, by J. Tayler. Cr. 8vo. 3rd ed. 148 pp. 1902. E. Wilson, 2s. 6d.

HANDBOOK FOR PUBLIC MEETINGS: Summoning and Management, by G. F. Chambers. Demy 8vo. 1886. Stevens & Sons, 2s. 6d.

HOW TO SPEAK AND WHAT TO Say: Hints for Speaking at Parochial Meetings, by Mrs. A. H. Barltrop. Cr. 8vo. 94 pp. 1903. W. Gardner, 1s.

MISSIONARY SPEAKER'S MANUAL, by A. R. Brickland and J. D. Mullins. Cr. 8vo. 380 pp. 1901. Nisbet, 6s.

PUBLIC SPEAKING AND DEBATE, by G. J. Holyoake. Cr. 8vo. 274 pp. 1903. Unwin, 1s. paper.

Taxes.

GUIDE TO INCOME-TAX PRACTICE, for Taxpayers, by A. Murray and R. N. Carter. Demy 8vo. 2nd ed. 372 pp. 1899. Gee, 10s.

GUIDE TO THE HOUSE TAX ACTS, by A. M. Ellis. Royal 12mo. 1885. Clowes, 6s.

INCOME-TAX ACTS, by H. St. G. Peacock. Royal 8vo. 1901. Sweet & Maxwell, 15s.

TAXPAYERS' CASH BOOK, by A. M. Scarff. $8\frac{3}{4} \times 6$ in. 4th ed. 260 pp. Income-tax Adjustment Agency, 3s. 6d.

(**Public Health.** See section 34.)

SECTION 57.

RAILWAYS AND TRAMWAYS.

General.

AMERICAN RAILWAYS, by E. A. Pratt. Cr. 8vo. 318 pp. 1903. *Macmillan, 3s. 6d.*

ECONOMIC THEORY OF THE LOCATION of Railways, by A. M. Wellington (U.S.A.). Large cr. 8vo. 6th ed. 980 pp. 303 Illus. 1899. Chapman, 21s.

IRISH RAILWAY AND COMMERCIAL Gazetteer. Demy 8vo. McCorquodale, 2s. 6d.

KILBURN'S STANDARD HANDBOOK for Railroad Men: Questions and Answers. 16mo. Laird & Lee, Chicago, $1.

MEMORANDUM OF CO-OPERATIVE Railroads: How Rural Districts of Belgium are Constructing Cheap Railways, by an Expert. Maps and Tables. Eyre & Spottiswoode, 2s.

NOTES ON RAILROAD ACCIDENTS: Their Causes and Prevention, by C. F. Adams, Jun. (U.S.A.). Cr. 8vo. 280 pp. 1879. Putnam, 5s.

RAILROADS AND RAILROAD Questions, by C. F. Adams, Jun. (U.S.A.). Cr. 8vo. Revised ed. Putnam, 5s.

RAILWAY AND COMMERCIAL Gazetteer of England, Scotland and Wales. Royal 8vo. 15th ed. 618 pp. 1900. McCorquodale, 8s. 6d.

RAILWAY DIARY AND OFFICIALS' Directory. Demy 8vo. Annual. McCorquodale, 1s.

RAILWAY MANUAL: SHAREHOLDER'S Guide and Official Directory. Cr. 8vo. 1903. Bradshaw, 12s.

RAILWAY TECHNICAL VOCABULARY: 5,000 French, English and American Technical Expressions, by L. Serraillier. Cr. 8vo. 224 pp. 1897. Whittaker, 7s. 6d.

REMUNERATIVE RAILWAYS FOR New Countries, by R. C. Rapier. Cr. 4to. Illus. Spon, 15s.

ROADS AND RAILROADS, by W. Gillespie. 12mo. 10th ed. 464 pp. A. S. Barnes & Co., N.Y., $1.75.

STANDARD HANDBOOK FOR RAILROAD Men, by A. Kilburn (U.S.A.). 16mo. 200 pp. 1898. Gay & Bird, 5s.

TWENTY YEARS' RAILWAY STATISTICS, 1883 to 1903. 200 pp. 1903. F. C. Mathieson & Sons, 1s.

UNIVERSAL DIRECTORY OF RAILWAY Officials. Demy 8vo. 558 pp. Annual. *Railway Engineer*, 10s. 6d.

USEFUL INFORMATION FOR RAILWAY Men, by W. G. Hamilton. 16mo. 10th ed. 562 pp. Van Nostrand, N.Y., $2.

Brakes.

CONTINUOUS RAILWAY BRAKES, by M. Reynolds. Large cr. 8vo. Lockwood, 9s.

SIMPLE AND AUTOMATIC VACUUM Brakes, by C. Briggs. 8vo. Plates. Spon, 4s.

UP-TO-DATE AIR-BRAKE CATECHISM, by R. H. Blackall (U.S.A.). Cr. 8vo. 18th ed. 305 pp. 96 Illus. 3 Plates. 1904. Spon, 8s. 6d.

Bridges.

AMERICAN RAILROAD BRIDGES, by T. Cooper. Super royal 8vo. 60 pp. 26 Plates. 7 Tables. *Engineering News*, N.Y., $2.

ESTIMATES AND DIAGRAMS OF Railway Bridges for Turnpike, Public and Occupation Roads, in the Embankments of Double or Single Lines, by J. W. Grover. Folio. 2nd ed. 37 Coloured Plates. Spon, 31s. 6d.

PLATE GIRDER RAILWAY BRIDGES, by M. Fitzmaurice, B.A. 8vo. Plates. Spon, 6s.

WOODEN TRESTLE BRIDGES AS Used on American Railroads, by W. C. Foster (U.S.A.). 4to. 2nd ed. Chapman, 21s.

(See also **Bridges** under **Engineering**, section 21.)

Buildings, Stations.

BUILDINGS AND STRUCTURES OF American Railroads, by W. G. Berg (U.S.A.). 4to. 700 Illus. 1900. Chapman, 31s. 6d.

EXAMPLES OF STATION BUILDINGS and their Cost as Executed on several Railways, by J. W. Grover. Folio. 13 Plates. Spon, 10s. 6d.

HANDBOOK OF RAILWAY STATIONS, Junctions, Collieries, Sidings, for U.K., giving Goods and Passenger Stations, by Oliver and Airey. McCorquodale, 5s., and Appendix. Annually. 1s.

IRON AND TIMBER RAILWAY Superstructures and General Works, by J. W. Grover. Folio. Spon, 42s.

(**Civil Engineering.** See section 21.)

Construction of Railways.

FIELD AND OFFICE TABLES: Specially Applicable to Railroads, by C. F. Allen. 12mo. 1903. Spon, 8s. 6d.

FIELD BOOK FOR RAILROAD Engineers, by J. B. Henck (U.S.A.). 12mo. 2nd ed. Spon, 10s. 6d.

FIELD ENGINEER: PRACTICE IN the Survey, Location and Track Work of Railroads, by W. F. Shunk (U.S.A.). 12mo. 14th ed. Spon, 10s. 6d.

FIELD MANUAL FOR RAILROAD Engineers, by J. C. Nagle (U.S.A.). 12mo. 1898. Chapman, 12s. 6d.

FORMULÆ FOR CALCULATION OF Railroad Excavation and Embankment, by J. W. Davis. 8vo. Van Nostrand, N.Y., $1.50.

FORMULÆ FOR RAILWAY CROSSINGS and Switches, by J. Glover, M.A. Royal 32mo. Spon, 2s. 6d.

HANDBOOK OF SHEET RAILROAD Location, by J. P. Brooks (U.S.A.). 12mo. Chapman, 6s. 6d.

MANUAL FOR RAILROAD ENGINEERS and Engineering Students, by G. L. Vose (U.S.A.). 8vo. 165 Illus. 31 Plates. Spon, 63s.

NEW SYSTEM OF LAYING OUT Railway Turnouts Instantly, by J. M. Clark. 12mo. Van Nostrand, N.Y., $1.

POCKET BOOK OF TABLES AND Formulæ for Railroad Engineers, by B. H. Hardaway (U.S.A.). Cr. 8vo. Spon, 7s. 6d.

RAILROAD CONSTRUCTION: THEORY and Practice, for Students, by W. L. Webb (U.S.A.). 8vo. 456 pp. 18 Illus. Chapman, 17s.

RAILROAD ENGINEER'S FIELD Book: Explorer's Guide, by H. C. Godwin (U.S.A.). 12mo. 2nd ed. Chapman, 10s. 6d.

RAILROAD ENGINEER'S PRACTICE, by T. M. Cleeman. 12mo. 4th ed. Illus. Van Nostrand, $1.50.

RAILWAY AND OTHER EARTHWORK Tables, by C. L. Crandall (U.S.A.). 8vo. 3rd ed. 1902. Chapman, 6s. 6d.

Construction of Railways, *continued.*

RAILWAY APPLIANCES: DETAILS of Railway Construction Subsequent to the Completion of the Earthworks and Structures, by Sir J. Wolfe Barry. (Text-book of Science). Fcp. 8vo. 351 pp. 218 Illus. 1898. Longmans, 4s. 6d.

RAILWAY BUILDER: PROBABLE Cost of American Railway Construction and Equipment, by W. J. Nicholls. 5th ed. Illus. Baird, Philadelphia, $2.

RAILWAY CONSTRUCTION, by W. H. Mills. Royal 8vo. 2nd ed. 365 pp. 345 Illus. 1900. Longmans, 18s.

RAILWAY ENGINEERING: MECHANICAL and Electrical, by J. W. C. Haldane. Demy 8vo. 562 pp. Illus. 1897. Spon, 15s.

RAILWAY TUNNELLING IN HEAVY Ground, by C. Gripper. Royal 8vo. Spon, 7s. 6d.

TABLES FOR COMPUTING THE CONTENTS of Earthwork in Cuttings and Embankments, by W. Macgregor. Royal 8vo. Spon, 6s.

TABLES FOR FACILITATING THE Calculation of Earthworks in the Construction of Railways, Roads, Canals, Dams, etc., by D. Cunningham. Royal 8vo. Spon, 10s. 6d.

TREATISE ON THE PRINCIPLES AND Practice of Levelling, by F. W. Simms. 8vo. Illus. Van Nostrand, N.Y., $2.50.

Carriage and Wagon Building.

CAR-BUILDER'S DICTIONARY, WITH Vocabulary of Leading Terms, compiled by R. Hitt and A. M. Waitt. Plans. 1903. *Railroad Gazette*, N.Y., $5.

LIFE OF RAILWAY AXLES, by T. Andrews. 8vo. Spon, 1s. paper.

RAILWAY CARRIAGES AND WAGONS: Their Design and Construction, by S. Stone. 4to. 350 pp. Plates. 1902. *Railway Engineer*, 20s.

SYSTEMS OF CAR LIGHTING, by A. M. Wellington. 8vo. 303 pp. Illus. *Engineering News*, N.Y., $1.

Curves on Railways.

PRACTICE OF LAYING OUT *urves* for Railroads, by J. C. Trantwine (U.S.A.). 12mo. 13th ed. Chapman, 10s. 6d.

HANDBOOK FOR LAYING CURVES on Railways and Tramways, by H. A. Kröhnke 12mo. 162 pp. 1 Plate. 1896. Kegan Paul, 5s.

PRACTICAL HINTS ON SETTING OUT Curves, with Table of Tangents, by A. G. Watson. 18mo. Spon, 6s.

RAILROAD CURVES AND EARTHWORK, by C. F. Allen (U.S.A.). 12mo. 3rd ed. 1903. Spon, 8s 6d.

RAILROAD SPIRAL: THEORY OF the Compound Transition Curve. 16mo. 1899. Chapman, 6s. 6d.

TABLES FOR SETTING OUT CURVES for Railways, Canals, Roads, etc., by A. Kennedy and R. W. Hackwood. 32mo. Spon, 2s. 6d.

TABLES OF PARABOLIC CURVES, for Railway Engineers, in French and English, by G. T. Allen. Fcp. 16mo. 50 pp. 1898. Spon, 4s.

Law of Railways.

HANDBOOK FOR SOLICITORS AND Engineers engaged in Promoting Acts of Parliament for Railways, Tramways, etc., by L. L. Macassey. 8vo. 1887. Lockwood, 25s.

LAW OF COMPENSATION PAYABLE by Railway and other Public Companies, by T. D. Ingram. Post 8vo. 2nd ed. 1869. Butterworth, 12s.

LAW OF LIGHT RAILWAYS, by C. Dodd and C. E. Allen, M.A., LL.B. Demy 8vo. 334 pp. 1896. Butterworth, 12s. 6d.

LAW OF RAILWAY AND CANAL Traffic, by E. Boyle and T. Waghorn. 3 vols. Royal 8vo. 1902. Clowes, 50s.

LAW OF TRAMWAYS AND LIGHT Railways, by S. Brice. Demy 8vo. 1898. Stevens & Haynes, 12s. 6d.

LAW OF RAILWAYS, RAILWAY Companies and Railway Investments, by Sir W. Hodges. 7th ed., by J. M. Lely. 2 vols. Royal 8vo. 1888-9. Clowes, 52s.

LAW OF TRAMWAYS AND LIGHT Railways of Great Britain, by G. S. Robertson. Royal 8vo. (3rd ed. of Sutton's Tramway Act.) 1903. Stevens & Sons, 25s.

LAWS RELATING TO MAXIMUM Rates and Charges on Railways, by

A. K. Butterworth, LL.B. Royal 8vo. 345 pp. 1897. Butterworth, 12s. 6d.

LIABILITY OF RAILWAY COMPANIES for Negligence towards Passengers, by A. Parsons. Cr. 8vo. 196 pp. 1893. Horace Cox, 5s.

LIGHT RAILWAYS: PROCEDURE before Light Railway Commissioners, by J. S. Oxley, M.A. Demy 8vo. 423 pp. 1901. Jordan & Sons, 17s. 6d.

LIGHT RAILWAYS ACT, 1896, by E. Austin. Demy 8vo. 2nd ed. 1899. Clowes, 5s.

MANUAL OF RAILWAY LAW, by F. M. Preston, B.A., LL.B. Cr. 8vo. 318 pp. 1892. A. & C. Black, 5s.

OUTLINE OF LAW RELATING TO Private Ownership of Railway Rolling Stock, by H. J. Taynton. Cr. 8vo. 79 pp. 1893. Horace Cox, 1s. 6d.

PREPARATION OF PARLIAMENTARY Plans for Railways, by. H. J. Fuller. Demy 8vo. 40 pp. 1900. *Engineer*, 2s. 6d.

PRINCIPLES OF RATING AS APPLIED to Railways, Docks, Tramways, Gas and Waterworks, Coal and other Mines, Electric Lighting Works, Manufactories, and Digest of Cases, by E. Boyle and G. Humphreys-Davies. Royal 8vo. 3rd ed. 1902. Clowes.

RAILWAY AND CANAL TRAFFIC Acts, 1854-1894. 1903. Eyre & Spottiswoode, 1s.

RAILWAY LAW FOR THE "MAN IN the Train," by G. E. T. Edalji. 12mo. 129 pp. 1901. E. Wilson, 2s. limp.

TREATISE ON THE LAW RELATING to Rates and Traffic on Railways and Canals, by A. K. Butterworth. 8vo. 2nd ed. 1889. Clowes, 18s. 6d.

Light Railways.

LIGHT RAILWAY CONSTRUCTION, by R. M. Parkinson. Royal 8vo. 256 pp. 1902. Longmans, 10s. 6d.

LIGHT RAILWAYS AT HOME AND Abroad, by W. H. Cole. Large 8vo. 340 pp. 4 Illus. 9 Plates. 1899. Griffin, 16s.

LIGHT RAILWAYS FOR THE UNITED Kingdom, India and Colonies: Construction and Working, by J. C. Mackay. Med. 8vo. 322 pp. Plates. 1896. Lockwood, 15s.

MANAGEMENT OF ELECTRIC TRAMWAYS, by W. R. Bowker. Cr. 8vo. 300 pp. 1904. Spon, 9s.

NARROW GAUGE RAILWAYS, by C. E. Spooner. 8vo. 2nd ed. Plates. Spon, 15s.

NARROW GAUGE RAILWAYS IN America, by H. Fleming. 8vo. Illus. Baird, Philadelphia, $1.

PRACTICAL HINTS FOR LIGHT Railways at Home and Abroad, by F. R. Johnson. Cr. 8vo. Spon, 2s. 6d.

RAILWAY, LIGHT RAILWAY AND Tramway Progress. Royal 8vo. 200 pp. Illus. P. S. King, 2s. 6d.

(**Electric Traction.** See section 19.)

(**Tramways.** See below.)

(**Locomotive Engineering.** See section 21.)

Management and Working.

AMERICAN RAILWAY MANAGEMENT: Addresses, by H. S. Haines (U.S.A.). Cr. 8vo. 368 pp. 1897. Chapman, 10s. 6d.

APPLICATION OF ELECTRICITY TO Railway Working, by W. E. Langdon. Demy 8vo. 331 pp. 1897. Spon, 10s. 6d.

LOCOMOTIVE BREAKDOWNS, by G. L. Fowler. Cr. 8vo. 1904. Spon, 6s. 6d.

RAILWAY ACCOUNTS AND FINANCE, by J. A. Fisher. Demy 8vo. 2nd ed. 530 pp. 1893. Bemrose, 7s. 6d.

RAILWAY MANAGEMENT OF STATIONS, by E. B. Ivatts. 3rd ed. 600 pp. McCorquodale, 6s.

RAILWAY PRACTICE: AMERICAN and European, by A. L. Holley. Folio. 77 Plates. Van Nostrand, N.Y., $12.

SAFE RAILWAY WORKING: RAILWAY Accidents: Their Cause and Prevention, by C. E. Stretton. Cr. 8vo. 3rd ed. 174 pp. 35 Illus. Plates. 1893. Lockwood, 3s. 6d.

WORKING AND MANAGEMENT OF an English Railway, by Sir G. Findlay. Cr. 8vo. 6th ed. 420 pp. 1899. Whittaker, 7s. 6d.

Permanent Way.

INSPECTION OF RAILWAY MATERIALS, by G. R. Bodmer. Cr. 8vo. 164 pp. 19 Diagrams. 3 Plates. 1902. Whittaker, 5s.

NEW ROADMASTER'S ASSISTANT: Manual of Permanent Way of American Railroads, by G. H. Paine (U.S.A.). Cr. 8vo. 259 Illus. Spon, 5s.

NOTES ON PERMANENT WAY Material: Platelaying and Points and Crossings, by W. H. Cole. 12mo. 3rd ed. 170 pp. 40 Plates. 1900. Spon, 7s. 6d.

PERMANENT WAY POCKET BOOK, by T. W. Jones. Obl. 18mo. Spon, 4s. 6d.

PERMANENT WAY, ROLLING STOCK and Technical Working of Railways, trans. from French of C. Couche. 3 vols. Vol. I. Permanent Way. 4to. With 38 Plates. 40s. Vol. II. Carrying Stock, Traction. 4to. With Atlas of 109 Plates. £5. Vol. III. Production and Application of Steam. 4to. With 21 Plates. £3. Dulau.

PLATELAYER'S GUIDE. 4th ed. 1901. Summerson & Sons, Ltd., Darlington, 5s.

RAILWAY TRACK AND TRACK Work, by E. E. R. Tratman. Med. 8vo. 2nd ed. 472 pp. 226 Illus. 1901. *Engineering News*, N.Y., $3.

STREET RAILWAY ROAD BED, by M. D. Pratt and C. A. Alden. Demy 8vo. 135 pp. 157 Illus. 1898. Street Railway Pub. Co., N.Y., $2.

Railway Rates.

CONCISE RAILWAY RATE BOOK of the Stations and Sidings on the English Railways, by M. Smith. Fcp. 16mo. 1886. Bemrose, 6s. 6d.

CONCISE RAILWAY READY-RECKONER, by H. Hughes. Double cr. 4to. McCorquodale, London, E.C., 2s. 6d.

RAILWAY AND TRADER'S CALCULATOR, by M. B. Cotsworth. Demy folio. 2nd ed. 225 pp. 1899. McCorquodale, 10s. 6d.

RAILWAY MAXIMUM RATES AND Charges, by M. B. Cotsworth. 4th ed. 1904. Bemrose, 10s. 6d.

RAILWAY RATE BOOK OF THE Stations, Sidings and Collieries on English Railways. Fcp. 8vo. New ed. No. 1. Blank Headings. 21s. and 6s. 6d. No. 2. With Classification Headings. 21s. Bemrose.

RAILWAY RATES AND THE Carriage of Merchandise by Railway: Laws Relating to, by H. R. Darlington, M.A. Demy 8vo. 581 pp. 1893. Stevens & Sons, 25s.

RAILWAY RATES, CHARGES AND Regulations of the U.K., by J. Davies. McCorquodale, 4s.

RAILWAY READY-RECKONER, by T. Shaw. Royal 8vo. McCorquodale, 3s.

Signalling.

BLOCK SIGNAL OPERATION, by W. L. Derr. Cr. 8vo. 1898. Van Nostrand, N.Y., $1.50.

BLOCK SYSTEM OF SIGNALLING ON American Railroads, by B. B. Adams. 1901. *Railroad Gazette*, N.Y.

RAILWAY "BLOCK" SIGNALLING, Principles of Train Signalling and Apparatus for Ensuring Safety, by J. Pigg. Cr. 8vo. 602 pp. Illus. 1898. Biggs, 7s. 6d.

RAILWAY SIGNALLING, by H. R. Wilson. Royal 4to. 161 pp. 500 Illus. 3 Plates. 1900. *Railway Engineer*, 18s.

(**Surveying.** See section 64.)

Tramways.

DUNCAN'S MANUAL OF TRAMWAYS, Omnibuses and Electric Railways of the U.K. Cr. 8vo. 450 pp. Annual. T. J. Whiting & Sons, 5s.

ELECTRIC TRACTION ON RAILWAYS and Tramways, by A. Reckenzaun. 12mo. 213 Illus. Van Nostrand, N.Y.

MOTORMAN AND HIS DUTIES: Theory and Practice of Operating Electric Cars (U.S.A.). Post 8vo. 1901. *Electricity*, 5s.

TRAMWAYS: THEIR CONSTRUCTION and Working, by D. K. Clark. Demy 8vo. 2nd ed. 758 pp. 388 Illus. 1894. Lockwood, 28s.

TREATISE UPON CABLE OR ROPE Traction as Applied to Street and

other Railways, by J. B. Smith. Cr. 4to. Illus. 1887. *Engineering*, 5s.

(**Tramway Law.** See **Law of Railways** above.)

(**Refrigeration.** See section 21.)

SECTION 58.

RIVERS, CANALS.

CANAL SYSTEM OF ENGLAND: ITS Growth and Present Condition, by H. G. Thompson. Sq. cr. 8vo. 74 pp. 1903. T. F. Unwin, 2s.

FORMULA FOR THE UNIFORM FLOW of Water in Rivers, etc., by E. Ganguillet and W. R. Kutter (U.S.A.), trans. from German. Royal 8vo. 2nd ed. Chapman, 17s.

HANDBOOK OF RIVER LAW ON THE Thames, by G. Pitt-Lewis, K.C. Demy 8vo. 410 pp. 1900. E. Wilson, 15s.

INDUSTRIAL RIVERS OF THE UNITED Kingdom. Cr. 8vo. 2nd ed. 306 pp. 19 Illus. 1891. T. F. Unwin, 3s. 6d.

LAW OF RIVERS' POLLUTION, by C. J. Haworth. 1897. Clowes, 6s.

MANCHESTER SHIP CANAL. Royal 4to. 46 pp. 1894. *Engineering*, 3s. 6d.

MANUAL OF HYDROLOGY, RIVERS, Flow of Water, Tides, etc., by N. Beardmore. 8vo. Plates. Spon, 24s.

NEW FORMULA FOR MEAN VELOCITY of Discharge of Rivers and Canals, by W. R. Kutter. Demy 8vo. 234 pp. 1876. Spon, 12s. 6d.

PRINCIPLES AND PRACTICE OF Canal and River Engineering, by D. Stevenson. Royal 8vo. 3rd ed. 406 pp. 67 Illus. 18 Plates. 1886. A. & C. Black, 31s. 6d.

RIVER BARS: CAUSES OF FORMATION, Treatment, by I. J. Mann. Royal 8vo. Lockwood, 7s. 6d.

RIVERS AND CANALS: FLOW, CONTROL and Improvement of Rivers, and Design and Construction of Canals, by L. F. Vernon-Harcourt. Royal 8vo. 2nd ed. 1896. Vol. I. Rivers. 342 pp. 14 Illus. 10 Coloured Plates. Vol. II. Canals. 362 pp. 13 Coloured Plates. Frowde, 31s. 6d.

STATUTE LAW RELATING TO Rivers' Pollution, by C. J. Haworth, B.A., LL.B. Cr. 8vo. 136 pp. 1897. Stevens & Sons, 6s.

TIDAL RIVERS: THEIR HYDRAULICS, Improvement and Navigation, by W. H. Wheeler. Med. 8vo. 467 pp. 75 Illus. 1893. Longmans, 16s.

TRADES' WASTE: ITS TREATMENT and Utilisation, with special reference to Rivers' Pollution, by W. Naylor. Royal 8vo. 284 pp. 1902. Griffin, 21s.

WATERWAYS AND WATER TRANSPORT in Different Countries, by J. S. Jeans. Demy 8vo. 507 pp. Illus. 1890. Spon, 14s.

(**Dams, Docks, Harbours.** See section 16.)

(**Water.** See section 71.)

SECTION 59.

ROADS, HIGHWAYS.

General.

CITY ROADS AND PAVEMENTS, by W. P. Judson. Med. 8vo. 2nd ed. 60 pp. Illus. 1902. *Engineering News*, N.Y., $1.

CONSTRUCTION OF CARRIAGEWAYS and Footways, by H. P. Boulnois. Demy 8vo. Illus. 1895. Biggs, 5s.

CONSTRUCTION OF ROADS, by F. Lathan. Demy 8vo. 226 pp. 1902. Sanitary Pub. Co., 7s. 6d.

CONSTRUCTION OF ROADS AND Streets, by D. K. Clark. 12mo. 6th ed. 488 pp. Illus. 1901. Lockwood, 6s.

ECONOMICS OF ROAD CONSTRUCTION, by H. P. Gillette. Med. 8vo. Illus. 1901. *Engineering News*, N.Y., $1.

HIGHWAY CONSTRUCTION IN WISCONSIN (U.S.A.), by E. R. Buckley. 8vo. 356 pp. 106 Plates. 1904. Wesley, 10s.

MAINTENANCE OF MACADAMISED Roads, by T. Codrington. 8vo. 2nd ed. 1892. Spon, 7s. 6d.

MANAGEMENT OF HIGHWAYS, by E. P. Hooley. Demy 8vo. Biggs, 1s.

Roads, Highways, *continued.*

MANUAL OF THE PRINCIPLES AND Practice of Road Making, by W. M. Gillespie, LL.D. (U.S.A.). Cr. 8vo. Illus. Spon, 10s. 6d.

PRACTICAL TREATISE ON THE CONSTRUCTION of Roads, Streets and Pavements, by Gen. O. A. Gillmore. Cr. 8vo. 70 Illus. Van Nostrand, N.Y., $2.

ROAD CONSTRUCTION AND MAINTENANCE: Essays. *Engineering Record*, N.Y., $1.

ROAD MAKING AND MAINTENANCE, by T. Aitken. Large 8vo. 440 pp. 134 Illus. 3 Plates. 1900. Griffin, 21s.

ROADS AND PAVEMENTS IN FRANCE, by A. P. Rockwell (U.S.A.). Cr. 8vo. 107 pp. 15 Illus. 1896. Chapman, 5s. 6d.

ROADS: THEIR CONSTRUCTION and Maintenance, by A. Greenwell. Cr. 8vo. 280 pp. 48 Illus. 1901. Whittaker, 5s.

STREET PAVEMENTS AND PAVING Materials, by G. W. Tillson (U.S.A.). Demy 8vo. 532 pp. 60 Illus. 1901. Chapman, 17s.

TEXT-BOOK ON ROADS AND PAVEMENTS, by F. P. Spalding (U.S.A.). 213 pp. 44 Illus. 1894. Chapman, 8s. 6d.

TREATISE ON HIGHWAY CONSTRUCTION, by A. T. Byrne (U.S.A.). 8vo. 4th ed. 895 pp. Illus. 1901. Chapman, 21s.

Highway Law.

DIGEST OF HIGHWAY CASES, WITH Principal Statutes relating to Highways, Bridges and Locomotives, by J. E. R. Stephens. Demy 8vo. 674 pp. 1903. Sanitary Pub. Co., 21s.

HIGHWAYS AND LOCOMOTIVES: Guide to Law relating to Highways, Bridges, Footpaths, etc., by L. Gaches, L.M.M., B.A. 8vo. 266 pp. 1900. Eyre & Spottiswoode, 2s. 6d.

LAW RELATING TO LOCOMOTIVES on Highways, by H. N. Copnall. Post 8vo. 104 pp. 1899. Horace Cox, 3s. 6d.

LAW OF CABS IN LONDON (INCLUDING Motor Cars), by H. Cohen. Cr. 8vo. 163 pp. 1899. Jordan, 2s. 6d.

NEW ROADS AND ROAD LAW IN the United States, by Gen. R. Stone. 12mo. 200 pp. Van Nostrand, N.Y., $1.

PRACTICAL GUIDE FOR SURVEYORS of Highways (Nash's). 1880. Butterworth, 5s.

(**Sanitation.** See section 34.)

SECTION 60.

SHOPKEEPING, TICKET WRITING.

Drapery.

AMERICAN DEPARTMENT STORE and Dry Goods Reference Book: 15,000 Names of U.S. Firms. 12mo. Annual. Thomas Pub. Co., N.Y., $2.

BOOK-KEEPING FOR RETAIL Drapers. Cr. 8vo. 14 pp. Home Trade Pub. Co., 2s. 6d. paper.

DRAPER'S DICTIONARY: MANUAL of Textile Fabrics: Their History and Application, by S. W. Beck. Cr. 8vo. 377 pp. Collinridge, 3s. 6d.

GUIDE TO WINDOW DRESSING, for Drapers and Assistants. Cr. 8vo. 5th ed. 108 pp. Illus. 1900. Collingridge, 1s.

WINDOW DRESSING, for Outfitters, by E. S. B. Small 4to. 168 pp. 337 Illus. Home Trade Pub. Co., 2s. 6d.

YOUNG DRAPER'S GUIDE TO Success, by W. Naismith. Long 12mo. 134 pp. 1901. A. Gardner, Paisley, 1s. 6d.

(**Sale of Goods Acts.** See section 40.)

Grocery.

BUYER'S CALCULATOR FOR COFFEE, Flour, Eggs, Oranges, Seeds, Oils and Turpentine. 16mo. 48 pp. *Grocer*, 6d.

SUGAR MERCHANT'S AND WHOLESALE Grocer's Calculator, by J. Aspin and A. W. Ryberg. Demy 8vo. About 350 pp. 1882. James Blackwood & Co., 10s. 6d.

THOMAS' AMERICAN GROCERY, Provision and Kindred Trades' Reference Book. 2 vols. 12mo. Annual. Thomas Pub. Co., N.Y., $5.50.

WINDOW DRESSING FOR GROCERS. 80 pp. 52 Designs. *American Grocer*, N.Y., $1.

Shopkeeping, Ticket Writing.

ART OF TICKET WRITING. Cr. 8vo. 5th ed. 104 pp. 15 Illus. 1894. Collingridge, 1s.

BOOK-KEEPING FOR RETAIL Stores. 8vo. *American Grocer*, N.Y., $1.

HOW DEPARTMENT STORES ARE Carried on in America. Pott 8vo. 140 pp. 1903. Richards, 2s. 6d.

HOW TO KEEP A STORE. *American Grocer*, N.Y., $1.50.

HOW TO WRITE SIGNS, TICKETS and Posters, ed. by P. N. Hasluck. Post 8vo. 160 pp. 170 Illus. 1901. Cassell, 1s.

SHOPKEEPER'S ACCOUNTS FOR Retail Traders, by S. B. Quin. Demy 8vo. 2nd ed. 50 pp. 1901. Gee, 2s. 6d.

TRADESMEN'S CALCULATOR, by Showell. Royal 32 mo. 146 pp. Ward, Lock, 1s. 6d.

WHERE TO BUY: GUIDE TO THE Professions and Business Houses, by C. M. Knowles. Cr. 8vo. 192 pp. 1902. Simpkin, 3s. 6d.

WINDOW TICKET WRITING, by W. C. Scott. 52 pp. 7 Illus. U. Gill, 1s. paper.

SECTION 61.

SHORTHAND, TYPE-WRITING.

Shorthand, Secretary.

AMERICAN PHONOGRAPHIC DICTIONARY, by E. Longley. 12mo. R. Clarke Co., Cincinnati, $2.

ELEMENTARY LAW FOR SHORTHAND Clerks and Typists, by E. A. Cope. Cr. 8vo. 198 pp. 1904. Pitman, 2s. 6d.

GURNEY SYSTEM OF SHORTHAND. Post 8vo. 18th ed. Butterworth, 3s.

HANDBOOK FOR SHORTHAND Teachers. Post 8vo. 2nd ed. 138 pp. 1893. Pitman, 2s. paper.

HOW TO BECOME A PRIVATE Secretary, by A. Sheppard. Fcp. 8vo. 1903. Unwin, 1s.

MANUAL OF PHONOGRAPHY. Post 8vo. 114 pp. Pitman, 1s. 6d.

MODERN SHORTHAND: LEARNER'S Reading Book, by J. M. Sloan. Cr. 8vo. 4th ed. 1901. Simpkin, 1s. 3d.

MODERN SHORTHAND: REPORTER'S Rules and Abbreviations, by J. M. Sloan. 8vo. 12th ed. 1901. Simpkin, 2s. 6d.

PHONOGRAPHIC REPORTER. Post 8vo. 231 pp. Pitman, 2s. boards.

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PHONOGRAPHY IN THE OFFICE: Complete Shorthand Clerk's Guide, by A. Kingston. Post 8vo. 5th ed. 130 pp. Pitman, 1s. 6d. boards.

REPORTER'S GUIDE, by T. A. Reed. Cr. 8vo. 128 pp. G. Pitman, 1s. 6d.

REPORTER'S GUIDE, for Students in any Style of Phonography, by E. Longley. 12mo. 1896. R. Clarke Co., Cincinnati, $2.

REPORTER'S HANDBOOK AND VADE Mecum, by T. A. Reed. 12mo. 96 pp. 1902. G. Pitman, 1s.

SCHOOL SHORTHAND, by J. D. Everett, M.A., D.C.L. Demy 8vo. 110 pp. 1893. Bemrose, 1s. 6d. paper.

SHORTHAND DICTIONARY OF THE English Language: 55,000 Words. Cr. 8vo. 7th ed. 300 pp. Pitman, 4s.

SHORTHAND FOR EVERYBODY, by W. M. Williams. Large cr. 8vo. 3rd ed. 45 pp. 1890. T. Laurie, 1s.

SHORTHAND FOR THE NEW Century, by J. Hughes. 12mo. 101 pp. 1902. J. Heywood, 2s. paper.

SHORTHAND INSTRUCTOR. Post 8vo. Pitman, 3s. 6d.

SHORTHAND TEACHER'S HANDBOOK: Guide to Art of Teaching Pitman's Shorthand. Cr. 8vo. 120 pp. 1903. I. Pitman, 1s. 6d.

SHORTHAND WRITER: GUIDE TO Commercial and Professional Uses, by T. A. Reed. Cr. 8vo. Pitman, 3s. 6d.

Shorthand, Secretary, *continued.*

SHORT HINTS ON SHORTHAND, by a *Times* Reporter. Fcp. 8vo. 3rd ed. 32 pp. 1888. Houlston, 1s.

SIMPLIFIED SYSTEM OF ENGLISH Stenography. 2 Parts. Dulau, 1s. each.

SWIFTOGRAPH INSTRUCTOR IN Shorthand Writing. Cr 8vo. 15th ed. 24 pp. Jarrold, 2s.

TEXT-BOOK OF PHONO-STENOGRAPHY: Stolze's System, by F. O. Dettman. Cr. 8vo. 2nd ed. Part I. Corresponding Style. 48 pp. 1s. 6d. Part II. Reporting Style. 80 pp. 1s. 6d. Asher & Co.

UNIVERSAL SHORTHAND, for Students, Teachers and Journalists, by J. Jenkin. Cr. 8vo. 32 pp. 1902. Houlston, 1s.

Typewriting.

COMMERCIAL HANDBOOK OF TYPEWRITING, by W. A. Parkyn. Cr. 4to. 5th ed. 70 pp. 1901. Pitman, 1s. 6d. boards.

MANUAL OF TYPEWRITING, by F. S. Humphrey. 8vo. Baker & Taylor Co., N.Y., $1.50.

MODERN TYPEWRITING AND MANUAL of Office Procedure, by A. E. Morton. Royal 8vo. 192 pp. 1903. I. Pitman, 2s. 6d.

TOUCH TYPEWRITING MANUAL, by J. T. Warren. Demy 8vo. 116 pp. 1903. Bell, 1s. 6d. boards.

TYPEWRITER MANUAL: PRACTICAL Guide to Typewriting Work. Large post 8vo. 3rd ed. 158 pp. Pitman, 3s.

TYPEWRITING AND BUSINESS CORRESPONDENCE Manual of Instruction, by O. R. Palmer (U.S.A.). Royal 8vo. 148 pp. 1900. Lippincott, 6s.

TYPEWRITING MACHINES: TWO Lectures, by H. C. Jenkins. Demy 8vo. 1894. Society of Arts, 1s. paper.

TYPISTS' MANUAL, for Commercial Students, by E. Collyns. Cr. 8vo. 5th ed. 167 pp. 1904. J. Heywood, 2s. 6d.

TYPISTS' ADVANCED MANUAL, by E. Collyns. Demy 4to. 118 pp. 1898. J. Heywood, 3s.

(**Commerce, Business.** See section 15.)

(**Silversmith.** See section 37.)

(**Smoke-prevention.** See **Engineering,** section 21.)

SECTION 62.

SOAPS, CANDLES.

AMERICAN SOAPS, by Dr. H. Gathmann. Royal 8vo. 3rd ed. 460 pp. 1902. *American Soap Journal*, Milwaukee, $15.

ART OF SOAPMAKING, by A. Watt. Cr. 8vo. 6th ed. 1901. Lockwood, 7s. 6d.

MANUFACTURE OF SOAPS, by C. Morfit, M.D. Demy 8vo. 270 pp. 16 Plates and Illustrations. 1871. Kegan Paul, 52s. 6d.

PRACTICAL TREATISE ON THE Manufacture of Soap and Candles, by W. T. Brannt. Royal 8vo. 677 pp. 163 Illus. 1888. Baird, Philadelphia, $7.50.

SOAP BRAND RECORD AND TRADE Mark Manual, by L. L. Lamborn, B.S. (U.S.A.). $8\frac{1}{4} \times 5\frac{3}{4}$. 178 pp. 1902. Chas. S. Berriman, N.Y., $5.

SOAP MAKERS' DIRECTORY. Cr. 8vo. 8th ed. Annual. Simpkin, 2s. 6d.

SOAP MANUFACTURE, for Workmen and Students, by W. L. Gadd. Sm. post 8vo. 2nd ed. 230 pp. 33 Illus. 1899. Bell, 5s.

SOAPS AND CANDLES, by J. Cameron. Cr. 8vo. 306 pp. 54 Illus. 1896. Churchill, 7s.

SOAPS: PRACTICAL MANUAL OF Manufacture of Domestic, Toilet and other Soaps, by G. H. Hurst. Demy 8vo. 390 pp. 66 Illus. 1898. Scott, Greenwood, 12s. 6d.

TEXTILE SOAPS AND OILS: HANDBOOK on the Preparation, Properties and Analysis of the Soaps and Oils used in Textile Manufacturing, Dyeing and Printing, by G. H. Hurst. Cr. 8vo. 195 pp. 1904. Scott, Greenwood, 5s.

TREATISE ON THE MANUFACTURE of Soap and Candles, Lubricants and Glycerine, by W. L. Carpenter, B.A., B.Sc. Cr. 8vo. 2nd ed.

446 pp. 104 Illus. 1895. Spon, 12s. 6d.

(**Oils, Greases.** See section 47.)

(**Chemicals.** See section 13.)

SECTION 63.

SOCIETIES.

Building, Co-operative and Friendly Societies.

ANNUITY TABLES FOR BUILDING Society and General Use, by T. K. Stubbins. Demy 8vo. Layton, 10s. 6d.

BOOK-KEEPING FOR TERMINATING Building Societies, by J. F. Lees. Demy 8vo. 125 pp. 1895. Simpkin, 3s. 6d.

CO-OPERATIVE SOCIETIES' ACCOUNTS, by F. H. Sugden. Demy 8vo. 114 pp. 1902. Gee, 5s.

INDUSTRIAL AND PROVIDENT SOCIETIES Acts, 1893-4, by V. de S. Fowke. Cr. 8vo. 188 pp. 1894. Jordan, 6s.

LAW OF FRIENDLY SOCIETIES AND Industrial and Provident Societies, by E. W. Brabrook. 13th ed. Layton, 7s. 6d.

TREATISE ON BUILDING SOCIETIES and Average Investment Trusts, by A. Scratchley. Layton, 27s. 6d.

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TREATISE ON FRIENDLY SOCIETY Valuations, by G. F. Hardy. Demy 4to. Layton, 25s.

(**Insurance.** See section 36.)

(**Solicitors.** See section 40.)

(**Stamp Duties.** See section 40.)

(**Steam.** See **Engineering,** section 21.)

(**Stockbroking.** See section 23.)

SECTION 64.

SURVEYING.

AID TO SURVEY PRACTICE, by L. d'A. Jackson. Cr. 8vo. 2nd ed. 350 pp. 42 Illus. Plates. Lockwood, 12s. 6d.

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ELEMENTS OF PRECISE SURVEYING and Geodesy, by M. Merriman (U.S.A.). 8vo. Chapman, 10s. 6d.

ENGINEER'S AND MINING SURVEYOR'S FIELD BOOK, by W. D. Haskoll. Cr. 8vo. 4th ed. Illus. Lockwood, 12s.

ENGINEER'S SURVEYING INSTRUMENTS, by J. O. Baker (U.S.A.). Cr. 8vo. 2nd ed. 386 pp. 86 Illus. 1895. Chapman, 12s. 6d.

FIELD WORK AND INSTRUMENTS, for Students, by A. T. Walmisley. Cr. 8vo. 290 pp. 224 Illus. 1900. Whittaker, 6s.

HANDBOOK FOR SURVEYORS, for Classroom and Field, by M. Merriman and J. P. Brooks (U.S.A.). 12mo. 2nd ed. Chapman, 8s. 6d.

HANDBOOK OF FORMULÆ, TABLES and Memoranda, for Architectural Surveyors and others Engaged in Building, by J. T. Hurst. Obl. 18mo. 1903. Spon, 5s.

HANDBOOK OF PRACTICAL SURVEYING for India, by F. W. Kelly. 8vo. 24 Plates. Thacker, 14s.

KEY TO THE SOLAR COMPASS AND Surveyor's Companion, by W. A. Burt. 5th ed. Van Nostrand, N.Y., $2.50.

LAND AND MARINE SURVEYING, by W. D. Haskoll. Large cr. 8vo. 2nd ed. 1886. Lockwood, 9s.

LAND SURVEYING AND LEVELLING, by A. T. Walmisley. Cr. 8vo. 140 Illus. 1900. Whittaker, 7s. 6d.

LAND SURVEYING: ITS THEORY and Practice, by S. Skrimshire. Demy 8vo. 432 pp. 202 Illus. 1901. *Estates Gazette*, 7s. 6d.

LAND SURVEYING ON THE MERIDIAN and Perpendicular System, by W. Penman. 8vo. Spon, 8s. 6d.

LEVELLING AND ITS GENERAL Application, by T. Holloway. Large cr. 8vo. 2nd ed. 148 pp. 58 Illus. Spon, 5s.

Surveying, *continued.*

MANUAL OF FIELD AND OFFICE Methods for Surveying Students, by W. D. Pence. 16mo. 3rd ed *Engineering News*, N.Y., $2.

MANUAL OF LAND SURVEYING, by F. Hodgman. 10th ed. 511 pp. 1903 F. Hodgman, Climax, Mich., U.S.A., $2.50.

NOTES ON GOVERNMENT SURVEYS of the Principal Counties, with Civil and Military Division of each County. 1882. 6s. Supplement. 1899. 3s. 6d. Eyre & Spottiswoode.

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PLANE SURVEYING, by P. C. Nugent (U.S.A.). 8vo. 577 pp. 320 Illus. 1902. Chapman.

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PRACTICAL SURVEYING, for Students, by G. W. Usill. Cr. 8vo. 8th ed. 378 pp. 360 Illus. 4 Plates. 1904. Lockwood, 7s. 6d.

PRACTICAL SURVEYOR FOR PUPILS, Stewards and Emigrants, by T. Holloway. Demy 8vo. 2nd ed. 114 pp. 63 Illus. 1895. H. Cox., 3s. 6d.

PRACTICAL TREATISE ON THE Science of Land and Engineering, Surveying, Levelling, etc., by H. S. Merrett. Royal 8vo. 5th ed. 350 pp. 41 Plates. Spon, 12s. 6d.

PRINCIPLES AND PRACTICE OF Levelling, by F. W. Simms. 8vo. 8th ed. Illus. 7 Plates. Lockwood, 8s. 6d.

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QUANTITY SURVEYING, by J. Leaming. Cr. 8vo. 5th ed. 944 pp. 42 Illus. 1904. Spon, 25s.

RATING: PRINCIPLES, PRACTICE and Procedure, from a Surveyor's Standpoint, by P. M. Faraday and S. A. Latham. Cr. 8vo. 600 pp. Illus. 1896. *Estates Gazette*, 7s. 6d.

SURVEYING AND LEVELLING INSTRUMENTS Theoretically and Practically Described, by W. F. Stanley. Cr. 8vo. 3rd ed. 562 pp. 372 Illus. 1901. Spon, 7s. 6d.

SURVEYING AND SURVEYING INSTRUMENTS, by G. A. T. Middleton. Cr. 8vo. 2nd ed. 156 pp. 56 Illus. 1902. Whittaker, 5s.

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SURVEYING AS PRACTISED BY CIVIL Engineers, by J. Whitelaw. 8vo. 532 pp. 260 Illus. 1902. Lockwood, 10s. 6d.

SURVEYING MANUAL, by W. D. Pence and M. S. Ketchum. Fcp. 8vo. 250 pp. Illus. 1901. *Engineering News*, N.Y., $2.

SURVEYING WITH THE TACHOMETER, for Civil and Military Engineers and Surveyors, by N. Kennedy. Demy 8vo. 104 pp. Plates. 1900. Lockwood, 10s. 6d.

SURVEYOR'S GUIDE AND POCKET Table Book. 12mo. 4th ed. Van Nostrand, N.Y., $2.

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TREATISE ON PLANE SURVEYING, by D. Carhart (U.S.A.). Demy 8vo. 498 pp. Illus. 1900. Ginn, 7s. 6d.

TREATISE ON SURVEYING, compiled by R. E. Middleton and O. Chadwick. Part I. Royal 8vo. 2nd ed. 300 pp. Illus. 1904.

Part II. Royal 8vo. 354 pp. Illus. 1902. Spon, 10s. 6d. each.

TREATISE ON SURVEYING, by W. M. Gillespie, LL.D. 2 vols. Demy 8vo. Vol. I. Land Surveying. 428 pp. and 127 pp. of Traverse Tables. 427 Illus. 1901. Vol. II. Higher Surveying. 467 pp. 588 Illus. 1901. Hirschfeld, 10s. 6d. each.

USE OF BAROMETER ON SURVEYS and Reconnaissances, by R. S. Williamson. 4to. Illus. Van Nostrand, N.Y., $15.

(**Civil Engineering.** See section 21. **Land, Property.** See section 38. **Railways.** See section 57.)

(**Taxes.** See section 56.)

SECTION 65.

TEACHING, EDUCATION.

(**Drawing.** See section 4.)

Education.

CO-EDUCATION OF MIND AND HAND, by C. H. Ham (U.S.A.). Demy 8vo. 40 pp. 1890. T. Laurie, 1s. paper.

EDUCATION ACTS, 1870-1902, by Sir H. Owen. 8vo. 788 pp. 1903. Knight, 21s.

EDUCATION: INTRODUCTION TO ITS Principles and their Psychological Foundations, by H. Holman. Cr. 8vo. 548 pp. 1896. Isbister, 6s.

EDUCATION IN ENGLAND AND Wales, Physical Education, Heuristic Method of Teaching, etc. 27 Papers. 1898. Eyre & Spottiswoode, 6s. 2d.

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SPINNING AND WEAVING CALCULATIONS, from German of N. Reiser. Demy 8vo. 34 Illus. Tables. 1904. Scott, Greenwood, 10s. 6d.

TEXTILE CALCULATIONS, by E. A. Posselt. 4to. Illus. Baird, Philadelphia, $2.

UNIVERSAL TABLES OF TEXTILE Structure, by J. Edmondson. Palmer, Howe, Manchester, 7s. 6d.

Colour Matching and Theory.

COLOUR MATCHING ON TEXTILES, by D. Paterson. Demy 8vo. 132 pp. 29 Illus. 1 Plate. 14 Dyed Specimens of Fabrics. 1901. Scott, Greenwood, 7s. 6d.

COLOUR: HANDBOOK OF THE Theory of Colour, by G. H. Hurst. Demy 8vo. 72 Illus. 10 Coloured Plates. 1900. Scott, Greenwood, 7s. 6d.

SCIENCE OF COLOUR MIXING, by D. Paterson. Demy 8vo. 128 pp. Coloured Plates, Illus. and Dyed Patterns. 1900. Scott, Greenwood, 7s. 6d.

(See also under **Art**, section 4.)

(**Calico Printing.** See **Dyeing**, also **Printing.**)

Cotton Manufacture.

COTTON DOUBLER'S ASSISTANT, by A. Prestwich. Cr. 8vo. 88 pp. 1888. J. Heywood, 2s.

COTTON MANUFACTURE, by J. Lister. Large cr. 8vo. 222 pp. 74 Illus. 1894. Lockwood, 7s. 6d.

COTTON MANUFACTURE OF GREAT Britain, by Dr. A. Ure. 2 vols. 150 Illus. Vol. I. 414 pp. Plates. 1861. Vol. II. 544 pp. Plates. 1861. Bell, 5s. each.

COTTON MANUFACTURERS', MANAGERS' and Spinners' New Pocket Guide, by J. Moss. Cr. 8vo. 5th ed. 126 pp. 1884. J. Heywood, 3s. 6d.

COTTON MANUFACTURING, by C. P. Brooks. Cr. 8vo. 3rd ed. 176 pp. 74 Illus. 1892. Spon, 2s. 6d.

COTTON MANUFACTURING, by E. A. Posselt (U.S.A.). Part I. Fibre, Ginning, Mixing, Picking, Scutching and Carding. 1903. Sampson Low, 14s.

COTTON STUDENT'S MANUAL, or Manager's and Overlooker's Guide, by R. Cunliffe. Cr. 8vo. 3rd ed. 80 pp. 1904. A. Heywood, Manchester, 2s.

COTTON TRADE IN ENGLAND AND the Continent, from the German of G. von Schultze-Gaevernitz. Demy 8vo. 214 pp. 1895. Marsden, Manchester, 5s.

DOUBLING AND MANUFACTURE OF Cotton Threads, by J. Dodson. Demy 8vo. 324 pp. 1903. Longmans, 10s. 6d.

SELF-ACTING MULES, by T. Thornley. Cr. 8vo. 2nd ed. 364 pp. J. Heywood, 4s. 6d.

(See also **Machinery** below, **Spinning** and **Weaving.**)

Designing.

COLOUR IN WOVEN DESIGN, by R. Beaumont. Cr. 8vo. 450 pp. 203 Illus. 32 Coloured Plates. 1890. Whittaker, 21s.

COTTON CLOTH DESIGNING, by J. Holmes. 8vo. 41 Coloured Plates. Holmes, Burnley, 6s.

DECORATIVE AND FANCY TEXTILE Fabrics, by R. T. Lord. Demy 8vo. 200 pp. 132 Illus. 1898. Scott, Greenwood, 7s. 6d.

DESIGN IN TEXTILE FABRICS (for Students), by T. R. Ashenhurst. 246 pp. 106 Illus. 10 Coloured Plates. 1899. Cassell, 4s. 6d.

INTRODUCTION TO THE STUDY OF Textile Design, by A. F. Barker. 1903. Methuen, 7s. 6d.

ORNAMENTAL DESIGN FOR WOVEN Fabrics, by C. Stephenson and F. Suddards. Demy 8vo. 2nd ed. 272 pp. 65 Plates and Illustrations. 1900. Methuen, 7s. 6d.

TECHNOLOGY OF TEXTILE DESIGN, by E. A. Posselt. 4to. 1500 Illus. Baird, Philadelphia, $5.

THEORY AND PRACTICE OF THE Art of Designing Fancy Cotton and Woollen Cloths from Sample, by F. T. Ashton. Folio. 52 Illus. Baird, Philadelphia, $5.

PRACTICAL TREATISE ON WEAVING and Designing of Textile Fabrics,

by T. R. Ashenhurst. Demy 8vo. 5th ed. 402 pp. 380 Illus. 1893. Simpkin, 12s. 6d.

(**Dressmaking.** See section 18.)

Dyeing.

ART OF DYEING WOOL, SILK AND Cotton, from French of M. Hellot, M. Macquer, M. le P. d'Apligny. First issued in English 1789; reissued 1901. Demy 8vo. 446 pp. 6 Plates. Scott, Greenwood, 5s.

DICTIONARY OF DYEING AND CALICO Printing, by C. O'Neill. Med. 8vo. 491 pp. 1869. Baird, Philadelphia, $2.

DYEING AND BLEACHING OF WOOL, Silk, Cotton, Flax, etc., by A. Sansome. Demy 8vo. 2 vols. 245 pp. in Vol. I. 70 Plates and 210 Specimens. 1888. Simpkin, 21s.

DYEING AND TISSUE PRINTING, by W. Crookes. 8vo. 418 pp. 1882. George Bell & Sons, 5s.

DYEING OF COTTON FABRICS, by F. Beech. Demy 8vo. 272 pp. 44 Illus. 1901. Scott, Greenwood, 7s. 6d.

DYEING OF TEXTILE FABRICS (for Students), by Prof. Hummel. Cr. 8vo. 245 pp. Cassell, 5s.

DYEING OF WOOLLEN FABRICS, by F. Beech. Demy 8vo. 228 pp. 33 Illus. 1902. Scott, Greenwood, 7s. 6d.

DYER AND COLOR-MAKER'S COMPANION. 12mo. 104 pp. Baird, Philadelphia, $1.

DYER'S INSTRUCTOR, by D. Smith. Cr. 8vo. 201 pp. Baird, Philadelphia, $1.50.

ENGLISH DYER, by D. Smith. 8vo. 300 Patterns. Palmer, Howe, Manchester, £4 4s.

GARMENT DYEING AND CLEANING, by G. H. Hurst. 2nd ed. Cr. 8vo. 196 pp. 1901. Griffin, 4s. 6d.

KHAKI ON COTTON AND OTHER Textile Material, by Dr. F. C. Theis, trans. by E. C. Kayser. Royal 8vo. 135 pp. 64 Patterns. 1903. Heywood & Co., Ltd., 12s.

MANUAL OF DYEING, by E. Knecht, C. Rawson and R. Loewenthal. 2 vols. 920 pp., and 1 vol. of 144 Dyed Fabrics. Vol. I. 403 pp. 51 Illus. Vol. II. 907 pp. 115 Illus. 1893. Griffin, 45s.

PRACTICAL OSTRICH FEATHER Dyer, by A. Paul, revised by M. Frank. *Textile Colorist*, Philadelphia, $5.

PRACTICAL SCOURER AND GARMENT Dyer, by W. T. Brannt (U.S.A.). Cr. 8vo. 203 pp. Illus. 1893. Low, 10s. 6d.

PRINCIPLES OF DYEING, by G. S. Fraps, Ph.D. (U.S.A.). 8vo. 263 pp. 22 Illus. 1903. Macmillan, 7s.

RECENT PROGRESS IN DYEING AND Calico Printing, by A. Sansome. Vol. I. Fastness of Colours. 136 pp. 5 Plates. 1895. 9s. Vol. II. Mordant, Basic and Acid Colouring Matters. Demy 8vo. 150 pp. Dyed and Printed Patterns. 1896. 9s. Vol. III. Bleaching, Indigo Blue Printing, etc. Demy 8vo. 92 pp. text. 19 Plates. 20 Plates of Patterns. 1897. 18s. Abel Heywood, Manchester.

SCIENCE OF COLOUR MIXING, by D. Paterson. Demy 8vo. 132 pp. 5 Coloured Plates. 11 Dyed Specimens of Fabrics. 1900. Scott, Greenwood, 7s. 6d.

SECRETS OF THE ART OF DYEING Wool, Cotton and Linen, by E. C. Horserich. 8vo. 323 Dyed Patterns. Baird, Philadelphia, $5.

SYSTEM OF CHEMISTRY APPLIED to Dyeing, by J. Napier. 8vo. 422 pp. Illus. Baird, Philadelphia, $3.

WOOL DYEING, by W. M. Gardner. Cr. 8vo. 108 pp. 14 Illus. 1896. J. Heywood, 2s.

Dyestuffs.

CHEMISTRY OF COAL-TAR COLOURS, by R. Benedikt and E. Knecht. 2nd ed. George Bell & Sons.

CHEMISTRY OF DYESTUFFS, by Dr. G. von Georgievics, trans. from German. Demy 8vo. 412 pp. 1903. Scott, Greenwood, 10s. 6d.

CHEMISTRY OF ORGANIC DYESTUFFS, by Prof. Nietzki, trans. by A. Collin and W. Richardson. 8vo. 329 pp. 1892. Gurney & J., 15s.

COMMERCIAL ORGANIC ANALYSIS, by A. H. Allen. Vol. III., Part I. Tannins, Dyes and Colouring Matters, Writing Inks. 8vo. 3rd ed. 600 pp. 1901. Churchill, 18s.

Dyestuffs, *continued.*

CULTURE AND MANUFACTURE OF Indigo, by W. M. Reid. Cr. 8vo. 19 Illus. Thacker, 6s.

DICTIONARY OF COAL-TAR COLOURS, compiled by G. H. Hurst. Royal 8vo. 2nd ed. 212 pp. 1896. Heywood & Co., Ltd, 12s. 6d.

DICTIONARY OF DYES, MORDANTS and other Compounds used in Dyeing and Calico Printing, by C. Rawson, W. M. Gardner and W. F. Laycock. Royal 8vo. 372 pp. 1901. Griffin, 16s.

DYERS' MATERIALS: EXAMINATION and Application of the most important Substances used in Dyeing, Printing, Bleaching and Finishing, by P. Heerman, trans. from German. Cr. 8vo. 150 pp. 24 Illus. 1901. Scott, Greenwood, 5s.

INDIGO MANUFACTURE: PRACTICAL and Theoretical Guide to the Production of the Dye, by J. B.-Lee, M.A. Cr. 8vo. 137 pp. 1892. Thacker, 6s.

MANUAL OF COLORS AND DYE Wares, for Dyers, Printers and Drysalters, by J. W. Slater. Cr. 8vo. 2nd ed. 243 pp. Crosby, Lockwood, 7s. 6d.

SYSTEMATIC SURVEY OF THE ORGANIC Colouring Matters, by G. Schu'tz and P. Julius, trans. by A. G. Green. 2nd ed. Imp. 8vo. 205 pp. 1904. Macmillan, 21s.

(**Embroidery, Lace.** See section 18.)

Examining and Testing Fabrics.

ANALYSIS AND REPRODUCTION OF Textile Fabrics, by A. F. Barker, with Appendix on Cost of Cloths. Marsden, Manchester, 5s.

CLOTH EXAMINING FOR WAREHOUSEMEN and Others in the Shipping Houses, etc., by J. W. Disley. 12mo. 37 pp. Abel Heywood, Manchester, 1s. limp.

TECHNICAL TESTING OF YARNS and Textile Fabrics, from German of Dr. J. Herzfeld. Demy 8vo. 2nd ed. 200 pp. 1902. Scott, Greenwood, *10s. 6d.*

Fibres, Raw Materials.

CHEMICAL TECHNOLOGY OF TEXTILE Fibres: Their Origin, Structure, Preparation, Washing, Bleaching, Dyeing, Printing, Dressing and Finishing, from German of Dr. G. von Georgievics. Royal 8vo. 320 pp. 47 Illus. 1902. Scott, Greenwood, 10s. 6d.

CHEMISTRY OF BAST FIBRES, by E. J. Bevan and C. F. Cross. Illus. Palmer, Howe, Manchester, 1s.

COTTON FIBRE AND THE MIXING of Cotton, by H. Monie, Jun. Cr. 8vo. 166 pp. Illus. 1904. Simpkin, Marshall, 3s. 6d.

COTTON: ITS USES, VARIETIES, Fibre-structure, Cultivation and Preparation for the Market, by C. P. Brooks. Royal 8vo. 362 pp. 174 Illus. 1898. Spon, 7s. 6d.

COTTON MANUFACTURING, by E. A. Posselt (U.S.A.). Part I. Fibre, Ginning. 8vo. 1903. Low, 14s.

CULTURE AND COMMERCE OF Cotton in India and Elsewhere, by J. Forbes Royle, M.D. Demy 8vo. 607 pp. Plates. 1851. Smith, Elder, 18s.

HEMP-CULTURE FOR SEED AND Fibre, by S. S. Boyce (U.S.A.). Cr. 8vo. 122 pp. 1900. Gay & Bird, 2s. 6d.

REPORT ON THE FLAX-CULTURE for Seed and Fibre in Europe and America, by C. R. Dodge (U.S.A.). 8vo. Illus. Spon, 2s.

REPORTS OF THE COLONIAL Sections of the Colonial and Indian Exhibition, 1886, for Textile Fibres. 8vo. 505 pp. 1887. Clowes, 10s. 6d.

RESEARCHES ON CELLULOSE, 1895-1900, by Cross & Bevan. 8vo. 180 pp. 1901. Longmans, 6s.

STRUCTURE OF THE COTTON FIBRE, by F. H. Bowman. Palmer, Howe, Manchester. *Out of print.*

STRUCTURE OF THE WOOL FIBRE in its Relation to the Use of Wool for Technical Purposes, by F. H. Bowman, D.Sc. 8vo. 366 pp. 32 Plates. Palmer, Howe, Manchester, 21s.

STRUCTURES OF FIBRES, YARNS and Fabrics, by E. A. Posselt. 4to. 400 Illus. Baird, Philadelphia, $5.

TEXTILE FIBRES OF COMMERCE, by W. I. Hannan. 8vo. 328 pp. 149 Illus. 1902. Griffin, 9s.

TEXTILE RAW MATERIALS AND their Conversion into Yarns (The Study of the Raw Materials and Technology of the Spinning Process), from German of J. Zipser. Demy 8vo. 500 pp. 302 Illus. 1901. Scott, Greenwood, 10s. 6d.

(**Cellulose.** See p. 113.)

(**Finishing.** See **Bleaching.**)

(**Linen.** See **Weaving.**)

Machinery, Mills.

COTTON COMBING MACHINES, by T. Thornley. Demy 8vo. 300 pp. 117 Illus. 1902. Scott, Greenwood, 7s. 6d.

COTTON MACHINERY SKETCHES, by W. S. Taggart. 4to. 1903. Macmillan, 2s. 6d. paper.

PRACTICAL MECHANICS FOR TEXTILE Workers, by G. R. Smith. Cr. 8vo. 235 pp. 85 Illus. 1899. J. Heywood, 3s.

PRACTICAL TREATISE ON DRAW-FRAMES and Bobbin and Fly-frames, by T. Thornley. Cr. 8vo. 390 pp. 73 Illus. 1898. A. Heywood, Manchester, 6s.

RECENT COTTON MILL CONSTRUCTION and Engineering, by Nasmith. Cr. 8vo. 2nd ed. 277 pp. 124 Illus. J. Heywood, 4s. 6d.

WOOLLEN AND WORSTED LOOM Fixing, by A. Ainley. J. M. Wade & Co., Boston, U.S.A., $1.

Mercerisation, Waterproofing.

MERCERISATION: PRACTICAL AND Historical Manual. 2 vols. Royal 8vo. 380 Patterns. 67 Illus. 1903. Heywood & Co., Ltd., 25s.

WATERPROOFING FABRICS AND Materials, by Dr. S. Mierzinski; trans. from German. Cr. 8vo. 29 Illus. 1903. Scott, Greenwood, 5s.

(**Millinery.** See section 18.)

Printing.

CALICO PRINTING, by C. O'Neill. 2 vols. Demy 8vo. Palmer, Howe, Manchester, 22s.

COLOUR PRINTING OF CARPET Yarns, by D. Paterson. Demy 8vo. 136 pp. 17 Illus. 1900. Scott, Greenwood, 7s. 6d.

PRINTING OF COTTON FABRICS, by A. Sansome. Demy 8vo. 2nd ed. revised. 482 pp. Plates and Specimens. 1902. Simpkin, 18s.

PRINTING OF TEXTILE FABRICS, by C. F. S. Rothwell. Large 8vo. 312 pp. 50 Illus. 103 Printed Patterns. 1897. Griffin, 21s.

(See also **Dyeing,** above.)

Silk.

COMPLETE INSTRUCTION IN REARING Silkworms, by Carrie Williams. 12mo. Illus. 1902. Whitaker & Ray Co., San Francisco, $1.25.

ORNAMENT IN EUROPEAN SILKS, by A. S. Cole. Cr. 4to. 220 pp. 167 Illus. 1899. Constable, 32s.

POWER LOOM WEAVING OF SILK Fabrics at Lyons, by Thomas Wardle. 8vo. 36 pp. Plates and Illus. 1893. Wm. Harris & Sons, Manchester. *Out of print.*

SILK DYEING, by G. H. Hurst. Small post 8vo. 226 pp. 21 Illus. 11 Plates of Coloured Patterns. 1892. Bell, 7s. 6d.

SILK THROWING AND WASTE SILK Spinning, by H. Rayner. Demy 8vo. 170 pp. 117 Illus. 1903. Scott, Greenwood, 5s.

Sizing.

SIZING AND MILDEW IN COTTON Goods, by G. E. Davis and C. Dreyfus. Demy 8vo. 2nd ed. 262 pp. 10 Illus. 9 Plates. 1889. Simpkin, 10s.

SIZING INGREDIENTS, SIZE MIXING and Sizing, by H. Monie, Jun., for the Textile Trades. 2nd ed. 64 pp. Illus. A. Heywood, Manchester, 2s. 6d. limp.

WARP SIZING, by W. E. Webb. Demy 8vo. 138 pp. Illus. J. Heywood, 5s.

SIZING OF COTTON GOODS, by Wm. Thomson. 8vo. 2nd ed. 258 pp. Plates and Illus. 1879. John Heywood. *Out of print.*

Soaps and Oils, Textile.

TEXTILE SOAPS AND OILS: HANDBOOK on the Preparation, Properties

and Analysis of the Soaps and Oils used in Textile Manufacturing, Dyeing and Printing, by G. H. Hurst, F.C.S. Cr. 8vo. 195 pp. 1904 Scott, Greenwood, 5s.

Spinning.

ANSWERS TO QUESTIONS SET IN Cotton Spinning Examinations, by R. Cunliffe. Cr. 8vo. 52 pp. 1896 A. Heywood, Manchester, 2s.

COMPLETE GUIDE TO SELF-ACTING Mules, by J. Cheetham. Cr 8vo. 5th ed. 70 pp. J. Heywood, 1s 6d paper.

COTTON SPINNING, by R. Marsden, for Workmen and Students. Sm. post 8vo. 5th ed. 361 pp. 101 Illus. 1899. Bell, 6s. 6d.

COTTON SPINNING, by W. S. Taggart. 3 vols. Cr. 8vo. Vol. I. Processes up to end of Carding. 2nd ed. 196 pp. 98 Illus. 1902. 4s. Vol. II. To the end of Fly-frames. 2nd ed. 207 pp. 86 Illus. 1901. 4s. Vol. III. 436 pp. 217 Illus. 1898. 10s. Macmillan.

COTTON SPINNING, for Students, by T. Thornley. 3 vols. Cr. 8vo. 1901. Vol. I. For First Year Students. 160 pp. 84 Illus. 3s. Vol. II. For Intermediate Course. 180 pp. 70 Illus. 5s. Vol. III. Honours Course. 216 pp. 74 Illus. 5s. Scott, Greenwood.

COTTON SPINNING AND WEAVING, by H. E. Walmsley. Demy 8vo. 3rd ed. 402 pp. Illus. 1893. A. Heywood, Manchester, 7s. 6d.

ELEMENTS OF COTTON SPINNING, by J. Morris and F. Wilkinson. Cr. 8vo. 394 pp. 169 Illus. 1897. Longmans, 7s. 6d.

FLAX, TOW AND JUTE SPINNING, by P. Sharp. Cr. 8vo. 3rd ed. 1896. J. P. Mathew & Co., Dundee, 5s.

HANDBOOK TO COTTON SPINNING, by J. E. Holme, revised by T. Thornley. Cr. 8vo. 3rd ed. 232 pp. Illus. 1901. J. Heywood, 3s.

HUMIDITY IN COTTON SPINNING, by Sir B. Dobson, revised by W. W. Midgley. Royal 8vo. 2nd ed. 145 pp. Illus. 1902. J. Heywood, 3s. 6d.

NOTES ON HAND SPINNING, by Annie Garnett. 8vo. 4 Plates. Dulau, 2s. 6d.

PRACTICAL TREATISE ON MULE Spinning, by T. Thornley. Cr. 8vo. 648 pp. 146 Illus. 1899. J. Heywood, 6s. 6d.

SOME DIFFICULTIES IN COTTON Spinning, by Sir B. Dobson. Cr. 4to. Revised ed. 131 pp. Illus. 1903. J. Heywood, 2s. 6d.

STUDENT'S ASSISTANT TO PRACTICAL Cotton Spinning, by T. Bryers. Cr. 8vo. A. Heywood, Manchester, 2s 6d.

STUDENTS' COTTON SPINNING, by J. N. Nasmith. Cr. 8vo. 6th ed. 620 pp. 249 Illus. J. Heywood, 6s.

SPINNING WOOLLEN AND WORSTED (for Students), by W. S. B. McLaren. Cassell, 4s. 6d.

THEORY AND PRACTICE OF JUTE Spinning, by W. Leggatt. Imp. 8vo. 300 pp. 140 Scale Diagrams. 1902. Simpkin, 10s. 6d.

WOOLLEN SPINNING, Text-book for Students, Practical Men, etc., by C. Vickerman. Cr. 8vo. 352 pp. 67 Illus. 1894. Macmillan, 6s.

YOUNG MAN'S ASSISTANT TO COTTON Spinning, by A. Prestwick. Cr. 8vo. 3rd ed. 168 pp. Illus. J. Heywood, 4s. 6d.

(See also **Cotton Manufacture, Woollens.**)

Weaving.

AMERICAN WEAVER, by G. R. Rymarczick. J. M. Wade & Co., Boston, U.S.A., $1.

ANALYSIS AND REPRODUCTION OF Textile Fabrics, by Aldred R. Barker. 8vo. 230 pp. Illus. 1894. Marsden & Co., Manchester, 5s.

COTTON MANUFACTURE, by John Lister. 8vo. 222 pp. Illus. 1894. Lockwood, 7s. 6d.

COTTON WEAVING, by R. Marsden, for Workmen and Students. Sm. post 8vo. 533 pp. 213 Illus. 1895. Bell, 10s. 6d.

COTTON WEAVING AND DESIGNING, by J. T. Taylor. Cr. 8vo. 3rd ed. 293 pp. 371 Illus. 1898. Longmans, 7s. 6d.

COTTON WEAVING CALCULATIONS, by J. Holmes. Holmes, Burnley, 2s. 6d.

JACQUARD MACHINE ANALYSED and Explained, by E. A. Posselt. 4to. 230 Illus. Baird, Philadelphia, $3.

JACQUARD WEAVING AND DESIGNING, by F. T. Bell. Demy 8vo 303 pp. 199 Illus. 1895. Longmans, 12s.

MANUAL OF WEAVE CONSTRUCTION, by I. Kastaneti, trans. by S. S. Dale. 100 pp. J. M. Wade & Co., Boston, U.S.A., $1.50.

MECHANISM OF WEAVING, by T. W. Fox. Cr. 8vo. 512 pp. 257 Illus. 1900. Macmillan, 7s. 6d.

POWER-LOOM WEAVING AND YARN Numbering, from German of A. Gruner. Cr. 8vo. 150 pp. 26 Diagrams in Colours. 1900. Scott, Greenwood, 7s. 6d.

PRACTICAL TREATISE ON WEAVING and Designing of Textile Fabrics, by T. R. Ashenhurst. Demy 8vo. 5th ed. 402 pp. 380 Illus. 1893. Simpkin, 12s. 6d.

PRACTICAL TREATISE ON THE CONSTRUCTION of the Power-loom and Art of Weaving, by A. Brown. 7th ed. Illus. 1896. J. P. Mathew & Co., Dundee, 3s. 6d.

RECENT IMPROVEMENTS IN TEXTILE Machinery relating to Weaving, by E. A. Posselt. 4to. Part I. 184 pp. 1898. 15s. Part II. 4to. 1900. 15s. Low.

SPINNING AND WEAVING CALCULATIONS, especially relating to Woollens, from German of N. Reiser. Demy 8vo. 170 pp 34 Illus. 1904. Scott, Greenwood, 10s. 6d.

THEORY AND PRACTICE OF ART OF Weaving by Hand and Power, by J. Watson. Demy 8vo. 3rd ed. 482 pp. 58 Illus. 1888. Simpkin, 8s.

THEORY AND PRACTICE OF THE Art of Weaving Linen and Jute Manufactures by Power Loom, by W. Leggatt. 12mo. 1893. W. Kidd, Dundee, 3s.

THEORY AND PRACTICE OF DAMASK Weaving, from German of H. Kinzer and K. Walter. Royal 8vo. 110 pp. 6 Illus. 18 Plates. 1903. Scott, Greenwood, 8s. 6d.

WEAVING CALCULATIONS, by C. P. Brooks. Cr. 8vo. 208 pp. 1899. Spon, 2s. 6d.

WEAVING PROBLEMS, for Students, by T. Oliver. 500 Problems. W. & J. Kennedy, Hawick, 2s.

Woollens, Worsteds.

FAULTS IN THE MANUFACTURE OF Woollen Goods and their Prevention, by N. Reiser; trans. from German. Cr. 8vo. 170 pp. 63 Illus. 1903. Scott, Greenwood, 5s.

HOW TO MAKE A WOOLLEN MILL Pay, by J. Mackie. Cr. 8vo. 76 pp. 1904. Scott, Greenwood, 3s. 6d.

MANUFACTURING PROCESSES OF Wool and Worsted, by J. Lister. Cr. 8vo. 205 pp. Illus. A. Heywood, Manchester, 6s.

PRACTICAL TREATISE ON THE Manufacture of Worsteds and Carded Yarns, by C. Leroux, trans. from French. 8vo. 341 pp. Baird, Philadelphia, $5.

PRINCIPLES OF WOOL-COMBING, by H. Priestman. Cr. 8vo. 284 pp. 1904. Bell, 6s.

WOOL CARDER'S VADE MECUM, by W. C. Bramwell. 12mo. 3rd ed. 400 pp. Illus. Baird, Philadelphia, $2.50.

WOOLLEN AND WORSTED CLOTH Manufacture, for Workmen and Students, by R. Beaumont. Small post 8vo. 3rd ed. 471 pp. 209 Illus. 1899. Bell, 7s. 6d.

(See also **Spinning** and **Weaving.**)

SECTION 68.

TIMBER.

Carpentry and Joinery. See section 12.)

Diseases.

DRY ROT IN TIMBER, by W. H. Bidlake. 8vo. 24 pp. 2 Plates. 1889. Batsford, 1s. 6d.

TIMBER AND SOME OF ITS Diseases, by H. M. Ward. Cr. 8vo. 296 pp. 45 Illus. 1897. Macmillan, 6s.

TREATISE ON THE ORIGIN, PROGRESS, Prevention and Cure of Dry Rot in Timber, by T. A. Britton. Cr. 8vo. 10 Plates. Spon, 7s. 6d.

(**Forestry.** See **Agriculture**, section 1.)

Measuring and Calculating.

AITKEN'S TIMBER MEASURER, Liverpool Measure. Rider, 9s.

ANGLO-FRENCH CALCULATOR FOR Timber Trade. Demy 8vo. Rider, 1s.

CALCULATOR OR TIMBER MERCHANTS' and Builders' Guide, by W. Richardson and C. Gane. Cr. 8vo. 502 pp. 1860. Kelly's, 7s. 6d.

HOPPUS'S MEASURER, ed. by W. Richardson. Oblong 8vo. 238 pp. Warne, 2s.

LAKE'S BOOK OF TABLES AND Useful Information for Timber Trade. *Timber*, 1s.

MENSURATION OF TIMBER, by P. J. Carter. 1893. B. Quaritch, 1s.

PACKING-CASE TABLES, by W. Richardson. Oblong 4to. 3rd ed. Lockwood, 3s. 6d.

PEDDIE'S PRACTICAL MEASURER, for Wood Merchants, Builders, Carpenters, etc. Fcp. 8vo. Gresham Pub. Co., 7s. 6d.

POCKET CALCULATIONS FOR THE Use of Timber Merchants, by W. Richardson. Cr. 8vo. 160 pp. 1880. Kelly's, 4s.

PRACTICAL MEASURER, by A. Peddie. Fcp. 8vo. Blackie, 7s. 6d.

PRACTICAL TABLES FOR THE REDUCTION of Pieces to Running Feet, by I. Iverus and J. A. K. Saren. 4to. 52 pp. Rider, 4s.

PRINCIPLES AND PRACTICE OF Timber Measuring and Valuing, by T. Bright. Large cr. 8vo. 152 pp. 37 Illus. 1900. *Land Agent's Record*, 5s.

RAILWAY RATES STANDARD Timber Measurer and Calculator, by E. A. P. Burt. Cr. 8vo. 320 pp. Rider, 4s.

ST. PETERSBURG STANDARD CALCULATOR, by W. D. Pool. Demy 8vo. Rider, 3s. 6d.

STANDARD STAVE MEASURER AND Calculator, by E. A. P. Burt. Demy 8vo. 150 pp. Rider, 4s.

TABLE OF CUBIC CONTENTS FOR Measurement of Timber by 144 and 113 Divisors. Demy 8vo. 202 pp. 1903. Simpkin, 31s. 6d.

TIMBER MERCHANT AND BUILDER'S Vade Mecum, by G. Bonsfield. 6th ed. 46 Tables. Rider, 4s.

HANT AND BUILDER'S Companion, by W. Dowsing. Cr. 8vo. 4th ed. 1886. Lockwood, 3s.

TIMBER TRADES' MEASURER AND Calculator, by M. B. Cotsworth. Royal 16mo. McCorquodale, 3s. 6d.

Sawing and Working.

ARRANGEMENT, CARE AND OPERATION of Wood-working Factories and Machinery, by J. Richards. Cr. 8vo. 2nd ed. 150 pp. 64 Illus. 1885. Spon, 5s.

HANDBOOK OF SAWMILL AND Wood-converting Machinery, by M. P. Bale. Rider, 2s. 6d.

MODERN WOOD-WORKING MACHINERY, by J. S. Ransome. Cr. 8vo. 236 pp. 72 Illus. 236 pp. Rider, 3s. 6d.

SAWMILL WORK AND PRACTICE, by W. J. Blackmuir. Cr. 8vo. 166 pp. 1904. W. Rider, 3s. 6d.

SAWMILLS: THEIR ARRANGEMENT and Management, by M. P. Bale. Large cr. 8vo. 2nd ed. 346 pp. 63 Illus. 1896. Lockwood, 10s. 6d.

TIMBER SAWING, MOULDING, ETC., by A. Mackintosh. *Timber*, 1s.

WOOD-WORKING MACHINERY: ITS Rise, Progress and Construction, by M. P. Bale. Large cr. 8vo. 2nd ed. 434 pp. 50 Illus. 1894. Lockwood, 9s.

Timber Trade.

ENGLISH TIMBER AND ITS Economical Conversion, by "Acorn," Cr. 8vo. 216 pp. 1903. Rider, 3s. 6d.

MANUAL OF INDIAN TIMBER, by J. S. Gamble. Med. 8vo. 2nd ed. 882 pp. Illus. 1902. Low, 18s.

SHIPPING MARKS ON DEALS, Battens, Boards, Timber, Joinery Exported from Sweden, Norway, Canada, U.S.A., etc., with English and French Classifications. Cr. 8vo. 2nd ed. 184 pp. 1903. Rider, 6s.

SOFT WOODS AND COLONIAL TIMBERS, by P. A. Wells. Cr. 8vo. 1904. P. Marshall, 6s.

TELEGRAPHIC CODE FOR THE Timber Trade. 12mo. 136 pp. Rider, 10s 6d.

TIMBER AND TIMBER TREES, Native and Foreign, by T. Laslett; revised by H. M. Ward. Cr. 8vo.

2nd ed. 442 pp. 34 Illus. 172 Tables. 1894. Macmillan, 8s. 6d.

TIMBER: COMPREHENSIVE STUDY of Wood in all its Aspects (Commercial and Botanical), trans. from French of P. Charpentier. Royal 8vo. 437 pp. 178 Illus. 1902. Scott, Greenwood, 12s. 6d.

TIMBER IMPORTERS', TIMBER MERCHANTS' and Builders' Standard Guide, by R. E. Grandy. Cr. 8vo. Lockwood, 2s.

TIMBER TRADES DIRECTORY: Lists of Firms in British Isles, France, Germany, Russia, U.S.A., N.Z., etc., Engaged in the Timber and Wood-consuming Trades. Demy 8vo. 416 pp. 1901. Rider, 7s. 6d.

TREES OF COMMERCE, by W. Stevenson. Cr. 8vo. 2nd ed. 226 pp. Rider, 3s. 6d.

WOOD: MANUAL OF THE NATURAL History and Industrial Applications of the Timbers of Commerce, by G. S. Boulger. 369 pp. 82 Illus. 1902. E. Arnold.

WOOD: ITS USE AS A CONSTRUCTIVE Material, by W. Stevenson. Cr. 8vo. 240 pp. 50 Illus. 1894. Batsford, 4s. 6d.

(**Varnishes.** See section 49.)

(**Ventilation.** See section 54.)

SECTION 69.

VETERINARY.

General.

ANIMAL CASTRATION, by A. Liautard. Cr. 8vo. 9th ed. 178 pp. 53 Plates. 1902. Baillière, 7s. 6d.

ELEMENTARY LECTURES ON VETERINARY Science, by H. Thompson. Demy 8vo. 2nd ed. 397 pp. 1903. Baillière, 6s.

MANUAL OF VETERINARY HYGIENE, by F. Smith. 2nd ed. 93 Illus. Baillière, 10s. 6d.

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TEXT-BOOK OF VETERINARY Obstetrics, by G. Fleming, C.B., LL.D., F.R.C.V.S. Med. 8vo. 2nd ed. 758 pp. 226 Illus. 1896. Baillière, 25s.

TEXT-BOOK OF VETERINARY Ophthalmology, by G. G. van Mater, M.D. (U.S.A.). Demy 8vo. 157 pp. 71 Illus. 1897. Baillière, 15s.

VETERINARY HANDBOOK (Puriton's). New ed. 1901. Official Guide, Limited, Dublin, 2s 6d.

VETERINARY OBSTETRICS, by W. H. Dalrymple, M.R.C.V.S. W. R. Jenkins, N.Y., $2.50.

VETERINARY OBSTETRICS, by G. Fleming, F.R.C.V.S. 757 pp. W. R. Jenkins, N.Y., $6.25.

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CATTLE TUBERCULOSIS, by T. M. Legge, M.A., M.D., D.P.H. Large cr. 8vo. 78 pp. 23 Tables. Coloured Plate. 1898. Baillière, 2s. 6d.

COMMON AILMENTS AND DISEASES of Farm Stock, by A. I. MacCallum. Cr. 8vo. 56 pp. 1899. Livingstone, Edinburgh, 1s. 6d.

DISEASES AND DISORDERS OF THE Ox, by G. Gresswell. 8vo. Illus. W. R. Jenkins, N.Y., $3.50.

DISEASES OF LIVE STOCK AND their Remedies, by B. E. Miller, W. P. Hazard and others. Demy 8vo 524 pp 107 Illus. 1893. Baillière, 10s. 6d.

DISEASES OF THE OX, by J. H. Steel. Large cr. 8vo. 5th ed. 520 pp. 117 Illus. 2 Plates. 1895. Longmans, 15s.

DISEASES OF THE SHEEP, by J. H. Steel. Large cr. 8vo. 362 pp. 87 Illus. and Plate. 10 Tables. 1893. Longmans, 12s.

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Domestic Animals.

CANINE AND FELINE SURGERY, by F. T. G. Hobday. Demy 8vo. 152 pp. 76 Illus. 1900. W. R. Jenkins, N.Y., $2.

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DISEASES OF DOGS AND CATS and Their Treatment, by a Veterinary Surgeon. Cr. 8vo. 200 pp. 1893. *British and Colonial Druggist*, 1s.

DISEASES OF THE DOG AND THEIR Treatment, trans. from G. Muller. Med. 8vo. 420 pp. 93 Illus. 1900. Baillière, 21s.

DOGS: THEIR MANAGEMENT AND Treatment in Disease, by Ashmont. 208 pp. Forest & Stream Pub. Co., N.Y., $2.

HYDROPHOBIA: PASTEUR'S METHODS, by R. Suzor. Cr. 8vo. 231 pp. 1887. Chatto, 6s.

INDIAN NOTES ABOUT DOGS: THEIR Diseases and Treatment, by Major C. Fcp. 8vo. 6th ed. Thacker, 1r. 8an.

TREATISE ON THE PARASITES AND Parasitic Diseases of Domesticated Animals, trans. from L. G. Neumann. Spr. royal 8vo. 800 pp. 365 Illus. 1892. Baillière, 25s.

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EXERCISES IN EQUINE SURGERY, trans from P. J. Cadiot, by A. W. Billing, D.V.M. (U.S.A.). 8vo 56 Illus. 1897. Baillière, 12s. 6d.

FOOT OF THE HORSE, by D. Roberge (U.S A.). Demy 8vo. 269 pp. 65 Illus. 1894. Baillière, 21s.

GUIDE TO EXAMINATION OF HORSES for Soundness, for Students and Beginners, by J. Moore, F.R.C.V.S. Fcp 8vo. 22 pp. 1900. Thacker, 1s. 6d. boards.

HORSE, CATTLE AND SHEEP DOCTOR, by R. McClure, M.D. Demy 8vo. 500 pp. 100 Illus. 1901. Henneberry Co, Chicago, $1.50.

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LAMENESS OF HORSES AND DISEASES of the Locomotory Apparatus, by A. Liautard, M.D.V.M. (U.S.A.). Cr. 8vo. 313 pp. 1888. Baillière, 10s. 6d.

MANUAL OF THE THEORY AND Practice of Equine Medicine, by A. and C. Gresswell. Demy 8vo. 2nd ed. 774 pp. 1890. Baillière, 10s. 6d.

OUTLINES OF EQUINE ANATOMY, by J. H. Steel. Cr. 8vo. 312 pp. Longmans, 7s. 6d.

ROARING IN HORSES: ITS PATHOLOGY and Treatment, by Prof. Cadiot. 78 pp. 18 Illus. 1892. Sonnenschein, 2s. 6d.

VETERINARY MANUAL, for Horse Owners, by F. T. Barton. Cr. 8vo. 506 pp. 60 Illus. 1901. R. A. Everett & Co., 10s. 6d.

VETERINARY NOTES FOR HORSE Owners, by M. H. Hayes. Demy 8vo. 6th ed. 852 pp. 267 Illus. 1903. Hurst & Blackett, 15s.

(**Horses.** See also section 31.)

Medicine.

CLINICAL VETERINARY MEDICINE and Surgery, by J. A. Cadiot. Royal 8vo. 1903. Gay & Bird, 15s.

COMPEND OF VETERINARY MATERIA Medica and Therapeutics, by A. C. Hasslock. 12mo. W. R. Jenkins, N.Y., $1.50.

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CLINICAL VETERINARY MEDICINE and Surgery, by J. A. Cadiot and J. A. Dollar. Royal 8vo. 1903. Gay & Bird, 15s.

COURSE IN SURGICAL OPERATIONS, for Veterinary Students and Practitioners, by W. Pfeiffer and W. L. Williams. Cr. 8vo. 42 Illus. 1900. Baillière, 5s.

FLEMING'S TEXT-BOOK OF OPERATIVE Veterinary Surgery. Vol. I., ed. by J. Macqueen. Royal 8vo. 2nd ed. 304 pp. 343 Illus. 1903. Baillière, 10s.

MANUAL OF OPERATIVE VETERINARY Surgery, by A. Liautard, M.D.V.M. (U.S.A.). 786 pp. 563 Illus. Baillière, 30s.

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PRACTICE OF VETERINARY MEDICINE and Surgery, by E. Courtenay. Cr. 8vo. 590 pp. 1894. Baillière, 10s. 6d.

PRACTICE OF VETERINARY SURGERY. Vol. I. Operative Technique, by J. A. W. Dollar. Royal 8vo. 282 pp. 272 Illus. 1902. D. Douglas, Edinburgh, 12s. 6d.

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TEXT-BOOK OF OPERATIVE Veterinary Surgery, by G. Fleming, C.B., LL.D. Part I. 295 Illus. 10s. 6d. Part II. Royal 8vo. 726 pp. Illus. 1902. 12s. 6d. Baillière.

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SECTION 70.

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Sun Dials.

HOW TO BUILD SUN DIALS, by H. S. Spachman. 8vo. Comstock, N.Y., $1.50.

(*Jewellery, etc.* See section 37.)

SECTION 71.

WATER.

Examination, Analysis.

ACTION OF WATER ON LEAD: Cause and Prevention, by J. H. Garrett, M.D. Cr. 8vo. 116 pp. 1891. Lewis, 4s. 6d.

EXAMINATION OF WATER: Chemical and Bacteriological, by W. P. Mason (U.S.A.). Cr. 8vo. Chapman, 5s. 6d.

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EXAMINATION OF WATERS AND Water Supplies, by J. C. Thresh. Royal 8vo. 460 pp. 1904. Churchill, 14s.

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PAPERS ON LEAD POISONING AND Water Supplies, with Diagrams and Maps. 1903. Eyre & Spottiswoode, 8s. 10d.

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SIMPLE METHOD OF WATER ANALYSIS, by J. C. Thresh, M.D., D.Sc., D.P.H. Fcp. 8vo. 4th ed. 56 pp. 1903. Churchill, 2s. 6d.

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WATER ANALYSIS FOR SANITARY Purposes, by E. Frankland. Post 8vo. 2nd ed. 133 pp. 1890. Gurney & Jackson, 5s.

WATER AND PUBLIC HEALTH, by J. H. Fuertes (U.S.A.). 12mo. 1897. Chapman, 6s. 6d.

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PURIFICATION OF PUBLIC WATER Supplies, by J. W. Hill. Demy 8vo. 304 pp. 32 Illus. 1898. Van Nostrand, N.Y., 10s. 6d.

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WATER AND ITS PURIFICATION, by S. Rideal, D.Sc. Cr. 8vo. 2nd ed. 362 pp. 1902. Lockwood, 9s.

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ELEMENTARY HANDBOOK ON POTABLE Water, by F. Davis, M.Sc., Ph.D. (U.S.A.). Cr. 8vo. Gay & Bird, 5s.

ELEMENTS OF WATER ENGINEERING, by E. S. Gould. Med. 8vo. 168 pp. *Engineering News*, N.Y., $2.

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WATER SUPPLY: HANDBOOK FOR General Use, by J. Parry. Cr. 8vo. Illus. Spon, 3s. 6d.

WATER SUPPLY AND SEWERAGE OF Country Mansions and Estates: Lectures, by E. Bailey-Denton. Cr. 8vo. 76 pp. 1901. Spon, 2s. 6d.

WATER SUPPLY OF CITIES AND Towns, by W. Humber. Imp. 4to. 400 pp. 250 Illus. 52 Plates. Lockwood, £6 6s.

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(**Rivers, Canals, River Pollution.** See section 58. **Irrigation.** See section 1. **Ice-making.** See section 21.)

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